







GENERAL INDEX

TO THE

THIRD TEN VOLUMES

OF

THE JOURNAL

OF THE

ROYAL GEOGRAPHICAL SOCIETY.



COMPILED BY COLONEL HENRY YULE, C.B., F.R.G.S.

LONDON:

JOHN MURRAY, ALBEMARLE STREET.

MDCCCLXVII.

NOTE.

It has been thought desirable to prefix to this Index abstracts of the Annual Addresses delivered by the President of the Society for the year.

The Titles of Papers are entered in the General Index under both subject and author (when author's name is given), as well as in the Special List of Papers at the beginning, and such references are intended to be distinguished in the General. Index by the use of capitals in the leading words, e. g.:—

GASSIOTT, H. S., Notes from Journal of Hunting Tour in South Africa.

This detail has lost some of its value owing to the whole of the catch-words having been printed in capitals, a change which does not commend itself to me.

Abstracts of the Papers will be found in the General Index under author's names (when author's name is given).

All personal titles which convey no information, such as Mr and Esquire, have been omitted in the General Index, except in cases where the Christian name of the person was unknown; so let nobody take offence at such omission.

Having taken much pains with the correction of the MS., I declined the responsibility and labour of correcting the press as regards figures. In other respects, I have revised the proofs with my best attention.

H. Y.

Palermo, July 1, 1867.

WEL	LEBRARY
Coll.	MeMOMO
Coll	
No.	THE RESIDENCE OF THE PARTY OF T
	The second secon

INDEX TO THE PAPERS

IN THE

THIRD TEN VOLUMES OF THE JOURNAL OF THE ROYAL GEOGRAPHICAL SOCIETY.

EUROPE.		
Alps, Notes on the Passage of Hannibal across the; and on the Valley of Beaufort, in Upper Savoy. By Prof.	- Vol.	Page
Paul Chaix, of Geneva, Corr. Member R.G.s.	XXV.	182
ARVE, Hydrography of the Valley of the. By Prof. Paul Chaix (as above)	XXVII.	224
Azov, On the Geography of the Sea of, the Putrid Sea, and the adjacent Coasts, &c. By Capt. Sherard Osborn, R.N., C.B., F.R.G.S., &c.	XXVII.	183
Balkan, or Mount Haemus, Notes on a Journey into the, in 1847. By Lieut-General A. Jochmus.	XXIV.	36
Commentaries. By LieutGeneral A. Jochmus, (written in 1830 and 1834). 1. On the Expedition of Philip of Macedon against Thermus and Sparta. 2. On the Military Operations of Brennus and the Gauls against Thermopylæ and Ætolia. 3. On the Battle of Marathon, &c. 4. On the Battle of Sellasia, and the Strategic Movements of the Generals of Antiquity between Tegea, Caryæ, and Sparta	XXVII.	1
CRETE, Extract of a Letter from Capt. Spratt, R.N., on	XXIV.	238
Danube. Route between Kustengé and the, by the Kara-su and Yeni-Keui Valleys, with observations on the Navigation of the Karasu Lakes, and their origin; also on the requirements necessary to render the water and land communication practicable, being the result of an examination made during a recent journey with LieutCol. the Hon. A. Gordon and LieutCol. J. Desaint, of the Etat Major. By Capt. Spratt, R.N.,		
of H.M.S. Spitfire, July, 1854	XXVI.	203
, Notes on the Lower. By Major J. Stokes, R.E.	XXX.	162
GREECE. See COMMENTARIES above.		
Millo, On the-Volcanic Group of. By Lieut. Leycester, R.N., F.R.G.S.	XXII.	201
SERPENT ISLAND (Black Sea), Remarks on. By Capt. T.		
Spratt, R.N., C.B.	XXVII.	220
Wick, Observations on the Water of. By John Cleghorn .	XXVII. в 2	239

ACTA		
ASIA. AMUR, Notes on the River, and its adjacent Districts. By	Vol.	Page
MM. Peschurof, Permikin, Shenurin, Vasilief, Radde, Usoltzof, Pargachefski, &c. Translated from the Rus-		3
sian by Mr. Mitchell, under the superintendence of Capt. Collinson, R.N., F.R.G.S.	XXVIII.	376
Arabia. See Jerusalem and Medina below.		
Aracan, Extracts from a Journal up the Koladyne River. By Capt. S. R. Tickell, Bengal Native Infantry .	XXIV.	86
Aral, Survey of the Sea of. By Comm. Alexey Butakoff, Imp. Russ. Navy	XXIII.	93
Baghdad to Busrah, Notes of a Journey from, with Descriptions of several Chaldæan Remains. By W. Kennett Loftus, Esq	XXVI.	131
Bashan, Explorations in the Desert east of the Hauran, and in the ancient land of. By Cyril Graham, Esq., F.R.G.S., &c.	XXVIII.	226
———. See also Damascus below.		•
Burma and its Tributary States, On the Geography of, in illustration of a New Map of those Regions. By Capt. Henry Yule, f.r.g.s., Bengal Engineers, Secretary to		
Major Phayre, late Envoy to the Court of Ava	XXVII.	54
Bushir to Shiraz, Notes on the Routes from, &c. By Lieut General William Monteith, H.E.I.C. Engineers, F.R.G.S.	XXVII.	108
Bussora to Aleppo, Diary of a Journey with Sir Eyre Coote from (circa 1780).* From the original MS	XXX.	198
Cambodia, Notes on the Antiquities, Natural History, &c., &c., of, compiled from MSS. of the late E. F. J. Forrest, Esq., and from information derived from the Rev. Dr. House, &c., &c. By James Campbell, Esq., Surgeon R.N., F.R.G.S.	XXX.	128
See also Siam and Cambodia below.		
Caspian and Black Seas, Remarks upon the Country between the. By Prof. Hermann Abich. [This paper is termed in the contents of the volume "The Clima- tology of the Caucasus."]	XXI.	ì
CEYLON, Account of a recent Visit to the Ancient Tanks of, and of an attempt to trace the course of the Ellahara Canal, &c. By Sir Henry George Ward, G.C.M.G., &c.,	VVVII	290
Governor of Ceylon	XXVII.	328
Parkes, Esq., F.R.G.S.	XXIV.	306)
——. See next, and Yangtseriang below. Chusan, with a Survey Map of the Island. By Sir J. F.		
Davis, Bart., f.r.s., f.r.g.s.	XXIII.	2422
Damascus, Hauran, and the Lebanon Mountains, Memoir on the Map of, constructed from personal survey by the Rev. J. L. Porter, A.M., F.R.G.S., and M.R.S.L.	XXVI.	43 3

^{*} This should be 1770, in which year Sir Eyre Coote threw up the command att Madras, and proceeded to Europe overland by Basrah.—(See 'Biog. Universelle.')

		-
Dead Sea, Attempt to account for appearances of sudden and violent Drainage on sides of the Basin of the. By	Vol.	Page
Capt. W. Allen, R.N., &c.	XXIII.	163
Eulæus of the Greek Historians, On the determination of the River. By William Kennett Loftus, Esq	XXVII.	120
JERUSALEM viâ Mount Sinai, Narrative of a Journey from Cairo to. By the late Dr. George A. Wallin, Professor of Arabic at Helsingfors	XXV.	260
Kumaon and Garhwal, in the Himalya Mountains, On the Physical Geography of, and of the adjoining parts of Tibet. By Capt. R. Strachey, Bengal Engineers	XXI.	57
Medina and Mecca, Journey from Cairo to, by Suez, Araba, Tawìla, Al-Jauf, Jubbé, Hail, and Nejd, in 1845. By the late Dr. G. A. Wallin, Professor of Arabic at		
Helsingfors, in Finland	XXIV.	115
R. F. Burton	XXIV.	208
——————————————————————————————————————	~~~~	
F. Burton, Bombay Army	XXV.	121
graphy of. By Col. Sir Henry Rawlinson, k.c.b., F.R.G.S.	XXVII.	185
Palestine, Outlines of a Journey in, in 1852. By the Rev. Dr. E. Robinson, E. Smith, &c.	XXIV.	1
Palestine, Report of a Journey in. By Mr. Henry Poole .	XXVI.	55
Persia, Geographical Notes taken during a Journey in, in 1849 and 1850. By Keith E. Abbott, Esq., H.B.M. Consul at Tehran	XXV.	1
——. See Shiraz below.		
RED SEA, On the Physical Geography of the. By Dr. Buist, of Bombay, F.R.G.S.	XXIV.	227
RUAD, On the Island of, North Syria. By Capt. W. Allen, R.N., F.R.G.S.	XXIII.	154
Seleucia, in Pieria, The Ancient Harbour of. By Capt. W. Allen, R.N., F.R.S., F.R.G.S.	XXIII.	157
Shiraz to Fezza and Darab, thence westward by Jehrum to Kazerun, Notes taken on a journey from, in 1850. By		
Consul Keith E. Abbott	XXVII.	149
Siam, Geographical Notes on, with a new Map of the Lower Part of the Menam River. By Harry Parkes, Esq.,	XXVI.	71
F.R.G.S., H.B.M. Consul at Amoy	XXXI.	
and Cambodia, Travels in. By D. O. King, Esq	$\Delta \Delta \Delta$.	177
Tibet, Physical Geography of Western. By Capt. Henry Strachey, Bengal Army (Gold Medallist)	XXIII.	. 1
WADI-EL-ARABA, On the Watershed of. By Capt. W. Allen,		
R.N., &c	XXIII.	166
YANGTSEKEANG, the, and the Hwang-Ho or Yellow River. By William Lockhart, Esq., F.R.G.S.	XXVIII.	288
Notes of a Voyage up. By Laurence Oliphant, Esq.,		

4	Vol.	Page
F.R.G.S., with Chart of the River by Capt. Sherard	XXX.	75
Osborn, R.N	XXX.	93
Zilitolomina, zinooni oz oliov zij vi initali zinominaj, italite i	و باقد باقد عالی سال باقد و داند و افغان باقد و داند و	50
AFRICA.		
ABYSSINIA, Memorandum on. Communicated from the Foreign Office	XXV.	215
Benguela to Ibo and Mozambique, Journeys of Silva Porto with the Arabs from, through Africa, Nov. 26th, 1852, to January 22nd, 1853; and June 9th, 1853, to August, 1854. By James Macqueen, Esq.	XXX.	136
CARAVAN JOURNEY from the East to the West Coast of Africa. Notice of a communication by Vice-Consul Brand, F.R.G.S., through the Foreign Office, with Remarks by Mr. W. D. Cooley	XXIV.	266
Central Africa, Mission to. Progress of the Mission, consisting of Messrs. Richardson, Barth, and Overweg.	XXI.	130
Ph. Dr. to Mr. A. Petermann. 2. Notes compiled from Letters received from the Sappers and Miners attached to the Mission. 3. Geographical Positions. Communicated by the Foreign Office	VVIV	9/7 (°
Barth to Dr. Beke, dated Timbuctu, Sept. 7th, 1853;	XXIV.	276
with Routes in Central Africa. 1. Extracts from Letters received from Edward Vogel, Ph. Dr. 2. Geographical Position of places between Murzuk and Kuka, and	XXIV.	283
in Mandra, Bornu, and Sudan. 3. Remarks on the Meteorological Observations taken	XXV.	237
Furanys, communicated by Dr. Barth	XXIII.	120
Traveller (Ladislaus Magyar) in; with Remarks by Mr. W. D. Cooley	XXIV.	271
Researches of Livingstone, Monteiro, Graça, and others. By James Macqueen, Esq., F.R.G.S. Northern, A general Historical Description	XXVI.	109
of the state of Human Society in. By H. Barth, PH. DR.	XXX.	112
Colesberg to Steinkoff, Journey from, in 1854-55. By Robert Moffatt, Esq., f.r.g.s., Government Surveyor at the Cape	XXVIII.	153
East African Expedition. A Coasting Voyage from Mombasa to the Pangani River; visit to Sultan Kim-	ق بالدينانية € بالقديمة الدينانية	100
were; and Progress of the Expedition into the Interior. By Capt. Richard F. Burton (Commanding), and J. H. Speke	XXVIII.	188
Equatorial Africa, with notices of the Lunar Mountains and the Sources of the White Nile; being the Results of an Expedition undertaken under the	·	

		phinting of the second
patronage of Her Majesty's Government, and of the	Vol.	Page
Royal Geographical Society of London, in the years		
1857-59. By Richard F. Burton, Captain, H.M.'s	XXIX.	
Indian Army. (The whole volume.)	ΔΔΙΔ.	
Ghadamis), Journey from Tripoli to. By Viee- Consul C. H. Dickson	XXII.	131
———, Account of. By C. H. Dickson, Esq., H.B.M.'s		
Consul at Sukum Kalé	XXX.	255
HARAR, Narrative of a Trip to. By Lieut. R. F. Burton,		
Bombay Army	XXV.	136
JIMMA COUNTRY (S.W. of Berbera), Account of the. Communicated by Sir J. Gardner Wilkinson	XXV.	206
KILIMANJARO and the White Nile. By James Maequeen,		
Esq., f.r.g.s	XXX.	128
Kwora and Chadda (or Shadda), Summary of an Exploring		
Trip up the Rivers. By Dr. W. B. Baikie, R.N., F.R.G.S.	XXV.	108
Limporo, The, its Origin, Course, and Tributaries. By Mr.		
Thomas Baines	XXIV.	288
Massomedes to Caemdo, Journey of João Francisco from, in	XXX.	4.64
1841. By James Macqueen, Esq	٠, ٢, ٢, ٢, ٢, ٢, ٢, ٢, ٢, ٢, ٢, ٢, ٢, ٢,	161
Moselekatse, King of the Matebele, a Visit to. By the Rev. R. Moffatt	XXVI.	84
NGAMI, Second Visit to Lake. By the Rev. David Living-		
ston	XXI.	18
ORANGE RIVER, the Northern Frontier of the Colony, &c., &c.,		
Journey from Little Namaqua-Land eastward, in August, 1856. By Robert Moffatt, Esq. (as above).	XXVIII.	174
——— (Sovereignty) Free State, and the Country of	Secure and A secure of A	
the Transvaal Boers, Memoranda of a Trading Trip		
into the. By John Sanderson, Esq	XXX.	233
RED SEA, Physical Geography of. See under Asia.		
South Africa, Notes on. By H. Gassiott, Esq	XXII.	136
—— Central Africa,* Expedition to Interior of (S.W. Africa). By Francis Galton, Esq., F.R.G.s.	XXII.	140
Explorations in. By Messrs. Living-	Z\$, Z\$. I. J. o	UE'I.
ston and Oswell	XXII.	163
, Explorations into the Interior of. By		
Dr. David Livingston. With Letter and Notes from	VVIV	901
Mr. Maclear on Dr. Livingston's observations	XXIV.	291
Walfisch Bay to Lake Ngami, and ascent of the Tioge		
River. By Charles J. Andersson, Esq	XXV.	79
Explorations into the Interior of. By		
the Rev. D. Livingston, Ll.D. (Gold Medallist). 1. Journey from the confluence of the Leeba and Lee-		
ambye to Loanda. 2. On the Province of Angola.		
3. Letters from Mr. Gabriel at Loanda	XXV.	218
By Dr. David Livingston, Ll.D., &c. (Gold Medallist).		
, Dy Di. David Livingston, LL.D., &c. (Good neadless).		

^{*} The term "South Central" Africa does not occur in the titles of these papers, but has been introduced here for convenience of grouping.

	Vol.	Page
1. Dr. Livingston's Astronomical Observations for Geographical Positions on his Journey from Leeba to Angola, and in Angola on his return; between January 1, 1854, and January 11, 1855; with calculations of the Longitudes and Latitudes therefrom, effected at the Royal Observatory, Cape of Good Hopc. By T. Maclear, H.M. Astronomer at the Cape of Good Hope. 2. Corrections for the Quango and the Chikapa	XXVI.	78
Dr. David Livingston, Ll.D., &c. (Gold Medallist.) 1. From Cabango to Linyanti; with a Dissertation on the Structure of the African Continent. Forwarded from Teté on March 3, 1856. 2. From Linyanti to the Falls of Victoria (Mosioatunya), thence across the Hills to the Confluence of the Zambesi and Kafué Rivers, and along the Zambesi to Teté; with Remarks on the Structure of the South-Eastern Part of the African Continent. 3. On the People of Southern Africa, with concluding Remarks. 4. On the Lower Part of Zambesi	XXVII.	349
YORUBA and Nupé Countries, Journey in, in 1858. By Daniel J. May, Esq., F.R.G.S., 2nd Master R.N.	XXX.	212
Zambeze (Zambesi), Journey of Galvão da Silva to Manica Gold-fields, &c., in 1788, with Description of the Country south of the Lower. By James Macqueen,		
Esq	XXX.	155
Sykes, f.R.s., f.R.g.s	XXIII.	101
AMERICA.		
Andes, Report of a Journey across the, between Cochabamba and Chimoré, with Remarks on the proposed Communication between Bolivia and the Atlantic viâ the Amazon. By J. A. Lloyd, Esq., F.R.G.S., H.B.M.'s Chargé d'Affaires in Bolivia. Communicated through	******	
ATACAMA, Abstract of Report of a Journey into the Desert of. By Dr. R. A. Philippi. Communicated by W. Bollaert,	XXIV.	259
Esq	XXV.	158
of Cupica on the Pacific, in the year 1827. By Comm. Charles Friend, R.N.	XXIII.	191
in search of a Route for a Ship Canal, under the direction of F. M. Kelley, Esq., of New York	XXVI.	174
British North American Exploring Expedition, Progress of the, under the command of Capt. John Palliser, F.R.G.S.	VVV	907
Chilé, Observations on the Coal Formation in. By W. Bollaert, Esq., F.R.G.S.	XXX.	$\frac{267}{172}$
Columbus, on the Landfall of, on his First Voyage to America. By Capt. A. B. Becher, R.N., F.R.A.S. and		
F.R.G.S.	XXVI.	189

Communication between the Populations of Europe and Asia,	Vol.	Page
Plan for a Direct. By Asa Whitney, Esq., of New York	XXI.	86
with the East, viâ British North America.	VVII	1 177 A
By Captain Synge, R.E., F.R.G.S.	XXII.	174
Copiapo, the Mines of. By Col. J. A. Lloyd (as above) .	XXIII.	196
Dominican Republic, On the Peninsula and Bay of Samana in the. By Sir R. Schomburgk, H B.M.'s Consul in the Dominican Republic, Corr. Memb. R.G.s.	XXIII.	264
ECUADOR, Explorations in, in the years 1856 and 1857. By George James Pritchett, Esq. Communicated by W. Bollaert, Esq., F.R.G.S.	XXX.	64
Guatemala, On the Latitude and Longitude of some of the principal Places in the Republic of. By A. Van de		
Gehuchte. Communicated by John Power, Esq., of Panama, F.R.G.S.	XXVIII.	359
Honduras, Central America, Some Account of the Lake of Yojoa or Taulebe in. By E. G. Squier, Esq., of the United States of America	XXX.	58
Isthmus of Central America, Further Considerations on the		
Great. By Capt. R. FitzRoy, R.N., &c	XXIII.	173
to cross the, under Comm. J. C. Prevost, R.N.	XXIV.	249
the. By Lionel Gisborne, Esq., F.R.G.S	XXVII.	19:
Mexico, Journey to. By Ch. Sevin, Esq., f.R.G.s	XXX.	
Saussure. Communicated by Prof. Paul Chaix, Corr. F.R.G.S.	XXX.	53
NICARAGUA, Survey made for a Canal from the Lake of, along the River Sapoa to the Port of Salinas or Bolaños in Costa Rica. By Magister Andreas Oersted, of Copen-	37377	
hagen. Presented by Mr. G. Fyler	XXI.	9(
Province of Chiriqui, Isthmus of. By J. H. Smith, Esq., of Panama, F.R.G.S.	XXIV.	250
Peru, Geography of Southern. By William Bollaert, Esq., F.R.G.S.	XXI.	99
——, Outlines of the Geography of. By Don Valentine Ledesma. Translated by W. Bollaert, Esq	XXVI.	21
——, Observations on the Province of Tarapaca, in South, by Don M. B. de la Fuente. Translated by W. Bollaert, Esq	XXVI.	229
Purus River, one of the principal Tributaries of the Amazons, On the supposed Sources of the. By C. R. Mark-	VVV	75
ham, Esq., F.R.G.S	XXV.	15.
May, 1857. By Dr. William Jameson	XXVIII.	33'
Rio Negro, On the. By Alfred R. Wallace, Esq	XXIII.	21:
SAN SALVADOR, Central America, Description of the State of. Communicated by John Power, Esq., F.R.G.S., of Pa-	37373777 7	S 4
nama	XXVIII.	349

	Vol.	Fage
South America, Observations relative to the Geographical Position of the West Coast of. By Carlos Moesta, Director of the National Observatory, Santiago de		
Chilé	XXVIII.	333
VANCOUVER ISLAND, Report of a Canoe Expedition along		
East Coast of. By Governor James Douglas	XXIV.	245
W. Colquhoun Grant, Esq., F.R.G.S., of the 2nd Dragoon Guards, and late LieutColonel of the Cavalry of the Turkish Contingent	XXVII.	268
AUSTRALIA.		
CENTRAL AUSTRALIA, Extracts from the Journal of an Exploring Expedition into, to determine the Course of the River Barcoo (or the Victoria of Sir T. L. Mitchell). By the late Mr. E. B. Kennedy, of the Surveyor-General's Department, Sydney. Communicated by the Rev. W. B. Clarke, M.A.	XXII.	228
MURRAY RIVER, On the Navigation of the. By Capt. Thomas	~~~~	South Starte
Cadell	· XXV.	177
NORTH AUSTRALIAN Exploring Expedition, Journal of the, under the command of Augustus C. Gregory, Esq. (Gold Medallist); with Report, by Mr. Elsey, on the health of the party	XXVIII.	1
NORTH-WEST AUSTRALIA, Notes on the Physical Geography	AAYIII.	1
of. By Mr. James S. Wilson, Geologist of the North-Australian Expedition	XXVIII.	137
Western Australia, Report of an Expedition under the Surveyor-General, Mr. J. S. Roe, to the South-Eastward of Perth in, between the months of September, 1848, and February, 1849, to the Hon. the Colonial Secretary. Communicated by the Colonial Office.	XXII.	1
ward from Perth, under Mr. Assistant-Surveyor, A. C.		
Gregory	XXII.	57
dition to the Murchison River	XXII.	71
pers and Miners	, XXV.	176
Interior of. By Assistant-Surveyor Robert Austin.	XXVI.	235
OCEANIA AND ARCTIC.		
Arctic Animal Life, On the Distribution of. By Augustus Petermann, Esq., F.R.G.s.	XXII.	118
Regions, Report on Return of the Prince Albert, Lady		
Franklin's vessel, under command of Mr. W. Kennedy, from	XXIII.	122
By Comm. E. A. Inglefield, R.N., F.R.G.S.	XXIII.	190
BEHRING STRAIT to Cambridge Bay, Account of the Proceed-	AAIII.	136
ings of H.M.S. Enterprise from. By Capt. R. Collinson, R.N., F.R.G.S.	XXV.	194

BONIN ISLANDS, Notes on the. By Capt. Michael Quin, R.N.,	Vol.	Page
F.R.G.S	XXVI.	232
Borneo, Sketch of the Geography of. By John Crawfurd, Esq., F.R.G.S.	XXIII.	69
Fiji Islands, Proceedings of the Expedition for the Explora- tion of the Rewa River and its Tributaries in Na Viti Levu. By John Denis Macdonald, Esq., Assistant-		
Surgeon of H.M.S. Herald, Capt. N. M. Denham .	XXVII.	232
Franklin, Sir John, Sea of Spitzbergen, and Whale-Fisheries in the Arctic Regions. By Aug. Petermann, F.R.G.S	XXIII.	129
respecting missing Party of. By Dr. John Rae, F.R.G.S. (Gold Medallist)	XXV.	246
States Navy of the Expedition in search of, during the years 1853, 4, 5; with a Chart showing the Discoveries		
made in the Arctic Regions. By Elisha Kent Kane, M.D., U.S.N. (Gold Medallist)	XXVI.	1
Expedition of. By A. G. Findlay, Esq., F.R.G.s.	XXVI.	26
James Anderson to Sir George Simpson, F.R.G.S., Go-		
vernor-in-Chief of Rupert Land	XXVI.	18
James Anderson's Arctic Journal	XXVII.	321
[N.B. Touching search for Franklin, see also Kennedy, Inglefield, and Collinson, above; and Kane, M'Clure, and Rae, below.]		
Friendly Islands, and Tongatabu, Sketch of the. By O. W. Brierly, Esq., F.R.G.S.	XXII.	97
Greenland, on the large Continental Ice of, and Origin of Icebergs in the Arctic Seas. By Dr. H. Rink, of Copenhagen	XXIII.	145
Copenhagen	XXVI.	36
of the North Coast of, and of an open Polar Sea, &c. as described in 'Arctic Explorations in the years		
1853, 4, 5.' By Henry Rink, M.D., Inspector in Greenland for the Danish Government	XXVIII.	272
HAWAII, Sandwich Islands, On the Volcanie Mountains of. By J. G. Sawkins, Esq.	XXV.	191
NEW GUINEA, Natural History of the Louisiade Islands and, by J. MacGillivray, Esq., F.R.G.S.	XXI.	13
Solomon Müller	XXVIII.	264
——————————————————————————————————————	XXX.	172
NEW ZEALAND, Recent Surveys in the Middle Island of. By Capt. J. Lort Stokes, R.N., F.R.G.S.	XXI.	25
Bodily Weight, Magnitude of Chest, and Physical	2000	
Strength of the. By Dr. Arthur Saunders Thomson,		

New Zealand, Extracts from a Journal kept during a Reconnaissance Survey of the Southern Districts of the Province of Otogo Pro J. Warmhall Whence The Province of Otogo Province and Province of Otogo Provin	Vol.	Page
vince of Otago. By J. Turnbull Thomson, F.R.G.S., Chief Surveyor	XXVIII.	298
NORTH-WEST PASSAGE, Discovery of the. By Comm. R. M'Clure, R.N. (Gold Medallist)	XXIV.	240
St. Helena, Notes to accompany the Map of. By Major Edmund Palmer, R.A., F.R.G.S	XXX.	2 60
South Sea Islands, Proceedings at the. By Capt. J. E. Erskine, R.N., F.R.G.S. 1. Samoan or Navigator Islands. 2. Friendly Islands. 3. Feejee Islands (otherwise Fiji or Viti). 4. New Hebrides, New Caledonia, and the Loyalty Islands	XXI.	222
VICTORIA LAND, Arctic Sea, Explorations along the South and East Coast of. By Dr. John Rae	XXII.	82
Wollaston Land, Arctic Sea, Journey from Great Bear Lake to. By Dr. John Rae	XXII.	73
MISCELLANEOUS.		
Aneroid Barometer, Remarks on the. By Colonel Philip Yorke, f.r.s. and f.r.g.s.	XXI.	35
Dr. George Buist, F.R.s., and F.R.G.s	XXI.	42
ARID COUNTRIES, On certain,—and the causes of their Dryness. By Thomas Hopkins, M.B.M.S., V.P. of the Manch. Lit. and Phil. Soc.	XXVI.	158
Census of Switzerland, Summary of the last. By Prof. Paul Chaix of Geneva, Corr. F.R.G.S.	XXIV.	313
CYCLONES, On the Formation of, and the Tracks they pursue. By Capt. Alfred Parish	XXVI.	
Cyclonic Hurricanes, Chronological Table comprising Four Hundred, which have occurred in the West Indies and North Atlantic from 1493 to 1855; with Bibliographical List of 450 Authors, Books, and Periodicals, where some interesting Accounts may be found, especially on West and East Indian Hurricanes. By Andrés Poey, Esq., of Havanna	XXV.	291
Light experienced in High Northern Latitudes during the absence of the Sun, Remarks upon the Amount of. By Capt. Sherard Osborn, R.N., C.B., F.R.G.S., Officier, Legion d'Honneur, &c.	XXXXIII	EVPF 4
LONGITUDE, for Travellers on Land. On Instruments and	XXVIII.	371
Observations for. By Col. G. Everest, v.p.r.g.s. Magnetic Needle at Aden, Notice on Variation of. By	XXX.	315
Capt. S. B. Haines, I.N	XXIV.	225
By Hugh Thurburn, Esq	XXII.	128
from London to Algoa Bay, from July to October 1853, Remarks on a Series of Three-Hourly. By Dr. P. C. Sutherland, F.R.G.S.	XXV.	256
Oceanic Currents, and their connexion with the Proposed		
Central American Canals. By A. G. Findlay, F.R.G.s.	XXIII.	217

Vol.	Page
XXX.	100
XXX.	106
	183
XXIV.	328
XXIV.	318
XXI.	241
XXVII.	206
	XXX. XXXI. XXIV. XXII.

^{*} This is misprinted Yule. See erratum in vol. xxii.

INDEX TO THE ILLUSTRATIONS

IN THE

THIRD TEN VOLUMES OF THE JOURNAL OF THE ROYAL GEOGRAPHICAL SOCIETY.

MAPS AND CHARTS.

Azov, Sea of, Putrid Sea, and Adjacent Coasts, to illustrate a Paper by Capt. Sherard Osborn, E.N. Balkan, Map of The, to illustrate a Paper by General Jochmus Beaufort, Valley, in Upper Savoy. Sketch by Professor Paul Chaix Danube, Sketch of the country between Kustenje and the By Capt. Spratt, E.N. Map to accompany Notes on the Lower Course of the. By Major J. Stokes, E. Greece. Sketch Maps by Lt. General Jochmus to illustrate his Commentaries on certain Ancient Campaigns, viz., Movements of the Macedonian Army at the taking of Thermus; Defile of Menelaion (before Sparta); Country about Thermopyle; The Battle of Marathon; Sellasia, and its Environs; Part of Laconia and Cynuria Milo, Antimilo, Kimolo and Polino (Volcanic Group of). Surveyed by Lord John Browne, E.N. Remains and Ruins of the Ancient Town of Melos. By Mr. G. R. Wilkinson, E.N. ASIA. Asur River, and the Adjacent Districts. Compiled by Mr. Arrowsmith to illustrate Notes from Russian Authors ARABIA, Map of the Northern Part of, Showing the Routes of Dr. G. A. Wallin Aracan, The Koladyn River in, to illustrate Journal of Capt. Tickell. Aral, Survey of the Sea of. By Comm. Alexis Butakoff, Imp. Russ. Navy Burma and its Tributary States. By Capt. Henry Yule, Bengal Engineers XXVII.	EUROPE,	
Balkan, Map of The, to illustrate a Paper by General Jochmus Beaufort, Valley, in Upper Savoy. Sketch by Professor Paul Chaix	Azov, Sea of, Putrid Sea, and Adjacent Coasts, to illustrate a Paper by Capt. Sherard Osborn, R.N.	
Beaufort, Valley, in Upper Savoy. Sketch by Professor Paul Chaix	Balkan, Map of The, to illustrate a Paper by General	
Danube, Sketch of the country between Kustenje and the. By Capt. Spratt, R.N. Map to accompany Notes on the Lower Course of the. By Major J. Stokes, R.E. Greece. Sketch Maps by LtGeneral Jochmus to illustrate his Commentaries on certain Ancient Campaigns, viz., Movements of the Macedonian Army at the taking of Thermus; Defile of Menclaion (before Sparta); Country about Thermopylæ; The Battle of Marathon; Sellasia, and its Environs; Part of Laconia and Cynuria Milo, Antimilo, Kimolo and Polino (Volcanic Group of). Surveyed by Lord John Browne, R.N. Remains and Ruins of the Ancient Town of Melos. By Mr. G. R. Wilkinson, R.N. ASIA. Amur River, and the Adjacent Districts. Compiled by Mr. Arrowsmith to illustrate Notes from Russian Authors Arabia, Map of the Northern Part of, Showing the Routes of Dr. G. A. Wallin Aracan, The Koladyn River in, to illustrate Journal of Capt. Tickell Aral, Survey of the Sea of. By Comm. Alexis Butakoff, Imp. Russ. Navy Burma and its Tributary States. By Capt. Henry Ynle	BEAUFORT, Vailey, in Upper Sayov. Sketch by Professor	
The map to accompany Notes on the Lower Course of the. By Major J. Stokes, R.E. GREECE. Sketch Maps by LtGeneral Jochmus to illustrate his Commentaries on certain Ancient Campaigns, viz., Movements of the Maccdonian Army at the taking of Thermus; Defile of Menelaion (before Sparta); Country about Thermopylæ; The Battle of Marathon; Sellasia, and its Environs; Part of Laconia and Cynuria Milo, Antimilo, Kimolo and Polino (Volcanic Group of). Surveyed by Lord John Browne, R.N. Remains and Ruins of the Ancient Town of Melos. By Mr. G. R. Wilkinson, R.N. ASIA. AMUR River, and the Adjacent Districts. Compiled by Mr. Arrowsmith to illustrate Notes from Russian Authors ARABIA, Map of the Northern Part of, Showing the Routes of Dr. G. A. Wallin ARACAN, The Koladyn River in, to illustrate Journal of Capt. Tickell ARACAN, Survey of the Sea of. By Comm. Alexis Butakoff, Imp. Russ. Navy BURMA and its Tributary States. By Capt. Henry Ynle	DANUBE, Sketch of the country between Kustenie and the	XXVI.
Greece. Sketch Maps by LtGeneral Jochmus to illustrate his Commentaries on certain Ancient Campaigns, viz., Movements of the Macedonian Army at the taking of Thermus; Defile of Menelaion (before Sparta); Country about Thermopylæ; The Battle of Marathon; Sellasia, and its Environs; Part of Laconia and Cynuria	————, Map to accompany Notes on the Lower Course of	XXX.
Milo, Antimilo, Kimolo and Polino (Volcanic Group of). Surveyed by Lord John Browne, R.N. Remains and Ruins of the Ancient Town of Melos. By Mr. G. R. Wilkinson, R.N. ASIA. AMUR River, and the Adjacent Districts. Compiled by Mr. Arrowsmith to illustrate Notes from Russian Authors ARABIA, Map of the Northern Part of, Showing the Routes of Dr. G. A. Wallin ARACAN, The Koladyn River in, to illustrate Journal of Capt. Tickell. ARAL, Survey of the Sea of. By Comm. Alexis Butakoff, Imp. Russ. Navy BURMA and its Tributary States. By Capt. Henry Ynle	Greece. Sketch Maps by LtGeneral Jochmus to illustrate his Commentaries on certain Ancient Campaigns, viz., Movements of the Macedonian Army at the taking of Thermus; Defile of Menelaion (before Sparta); Country about Thermopylæ; The Battle of Marathon; Sellasia, and its Environs; Part of Laconia and	
ASIA. ASIA. AMUR River, and the Adjacent Districts. Compiled by Mr. Arrowsmith to illustrate Notes from Russian Authors ARABIA, Map of the Northern Part of, Showing the Routes of Dr. G. A. Wallin ARACAN, The Koladyn River in, to illustrate Journal of Capt. Tickell. ARAL, Survey of the Sea of. By Comm. Alexis Butakoff, Imp. Russ. Navy BURMA and its Tributary States. By Capt. Henry Yule	Mile, Antimile, Kimele and Poline (Volcanic Group of)	XXVII.
ASIA. AMUR River, and the Adjacent Districts. Compiled by Mr. Arrowsmith to illustrate Notes from Russian Authors ARABIA, Map of the Northern Part of, Showing the Routes of Dr. G. A. Wallin ARACAN, The Koladyn River in, to illustrate Journal of Capt. Tickell Tickell ARAL, Survey of the Sea of. By Comm. Alexis Butakoff, Imp. Russ. Navy BURMA and its Tributary States. By Capt. Henry Yule	Surveyed by Lord John Browne, R.N.	XXII.
Amur River, and the Adjacent Districts. Compiled by Mr. Arrowsmith to illustrate Notes from Russian Authors Arabia, Map of the Northern Part of, Showing the Routes of Dr. G. A. Wallin Aracan, The Koladyn River in, to illustrate Journal of Capt. Tickell. Aral, Survey of the Sea of. By Comm. Alexis Butakoff, Imp. Russ. Navy Burma and its Tributary States. By Capt. Henry Yule	By Mr. G. R. Wilkinson, R.N.	XXII.
Arrowsmith to illustrate Notes from Russian Authors Arrowsmith to illustrate Notes from Russian Authors Arrowsmith to illustrate Notes from Russian Authors XXVIII. Arabia, Map of the Northern Part of, Showing the Routes of Dr. G. A. Wallin Aracan, The Koladyn River in, to illustrate Journal of Capt. Tickell Tickell Aral, Survey of the Sea of. By Comm. Alexis Butakoff, Imp. Russ. Navy Burma and its Tributary States. By Capt. Henry Yule	ASIA.	
ARACAN, The Koladyn River in, to illustrate Journal of Capt. Tickell. ARAL, Survey of the Sea of. By Comm. Alexis Butakoff, Imp. Russ. Navy Burma and its Tributary States. By Capt. Henry Yule	Arrowsmith to illustrate Notes from Russian Authors	XXVIII.
ARACAN, The Koladyn River in, to illustrate Journal of Capt. Tickell	ARABIA, Map of the Northern Part of, Showing the Routes of Dr. G. A. Wallin	XXIV
Aral, Survey of the Sea of. By Comm. Alexis Butakoff, Imp. Russ. Navy	ARACAN, The Koladyn River in to illustrate Journal of Capt	
Burma and its Tributary States. By Capt. Henry Yule	ARAL, Survey of the Sea of. By Comm. Alexis Butakett	
	Burma and its Tributary States. By Capt. Henry Yule	

CANGAGUE Circles Man to illustrate Prof Abiels on the	Vol.
Caucasus, Sketch Map to illustrate Prof. Abich on the Climatology of	XXI.
Chaldea, Susiana, &c., to illustrate Journeys by W. K. Loftus, and his determination of the River Euleus.	XXVI.
Chusan, Island of; from Official Surveys	XXIII.
Himalya Mountains, Part of the, to illustrate Capt. Straehey's Paper on Kumaon and Garhwal	XXI.
Palestine, to illustrate a Journey by Dr. Robinson and others	XXIV.
Dead Sea, &c	XXVI.
Trate a Memoir by Mr. Porter.	XXVI.
Bashan and the Desert east of the Hauran, to illustrate Mr. Cyril Graham's Explorations	XXVIII.
Persia, Journeys in, by Consul Abbott	XXV.
Monteith and Consul Abbott	XXVII.
SIAM and adjacent States, with an enlarged sketch of the Menam and other Siamese Rivers, to illustrate Paper by Consul Parkes	XXVI.
-, Sketch Map from Bangkok in, to Pelomping in Cam-	
bodia, to illustrate Mr. King's Journal Tiber, Map of Western, and the adjoining Provinces of the	XXX.
Indian Himalya, to illustrate Capt. H. Straehey's Paper	XXIII.
YANGTSEKIANG, Map of the, from Hankow down to Nanking. By Capt. Sherard Osborn	XXX.
$\Lambda \mathrm{FRICA}.$	
NORTHERN AND NORTHERN CENTRAL AFRICA. Routes of	
Riehardson, Barth, and Overweg; with a Plan of Agadez, &c	XXI.
Route from Tripoli to Lake Chad	XXV.
trate Dr. Barth on the State of Society in Northern	
Central Africa	XXX.
Consul Dickson from Tripoli to Ghadamis	XXII.
Routes between Tripoli and Ghadamis	XXX.
East African Expedition. Pangani to Fuga, a Route Survey by Captains Burton and Speke	XXVIII.
Route between Zanzibar and the Great Lakes. Com-	
piled from Capt. Speke's Observations by Mr. A. G. Findlay	XXIX.
West Central Africa. The Rivers Kwora and Binue or Chadda, to illustrate Dr. Baikie's Journal.	, XXV.

West Central Africa. The Yoruba and Nupé Countries,	Vol.
to illustrate Mr. May's Journeys	XXX.
and 30° of South Latitude, to illustrate Travels of Galton, Livingston, Oswell, and Gassiott	XXII.
ston's Route from the River Chobé to Loando	XXIV.
son from Walfisch Bay to Lake Ngami	XXV.
from Barotsé Valley on the Leeambye to Loanda.	XXV.
across Africa; constructed from his observations by Arrowsmith	XXVII.
By James Macqueen	XXVI.
Route of Silva Porto from Benguela to Cape Delgado; and also the Sources of the Nile, &c. By James Macqueen	XXX.
between 28° 10′ and 31° 20′, to illustrate the Journeys of R. Moffatt, Junior, in Great and Little Bushmanland, and along the Orange River	XXVIII.
River Free State and Trans Vaal Republic. From a Sketch by J. Sanderson	XXX.
visit to Moselekatsé, King of the Matebelé. By the Rev. R. Moffatt	XXVI.
AMERICA.	
Andes, Sketch of Route across, from Cocha-Bamba (in Bolivia) to the city of Trinidad. By Col. Lloyd .	XXIV.
posed Sources of the Purus River	XXV.
Bahamas, Part of Cuba, &c., Chart of the; to illustrate Capt. Becher on the Landfall of Columbus	XXVI.
British North America, to illustrate Capt. Synge's Paper on Communication with the Pacific	XXII.
Island, showing the Tracks of Captain Palliser's Expedition	XXX.
DARIEN, Part of the Isthmus of. Compiled by Captain R. FitzRoy	XXIII.
, Isthmus of; Prevost's Route, with Sections by L. Gisborne, c.e.	XXIV.
trate Summary Report by L. Gisborne	XXVII.
Ecuador, Sketch of Part of the Republic of, showing Journeys of G. T. Pritchett	XXX.

Honduras, Sketch of (the Isthmus of), shewing Lake Yojoa, and the Proposed Railway, to illustrate a Paper by	Vol.
E. Squier	XXX.
Lake Nicaragua, Survey for Canal from, to Port Salinas in Costa Rica	XXI.
Mexico, Map of the North-Western Provinces of	XXX.
Rio Negro (Tributary of Amazon) and River Uaupes (Trib. of Rio Negro), from observations by Alfred R. Wallace	XXIII.
Saint Domingo, Peninsula and Bay of Samana in the Republic of. By Sir Robert Schomburgk	XXIII.
TARAPACA Province in Southern Peru, with transverse sections. By W. Bollaert and George Smith	XXI.
Vancouver Island, Sketch to illustrate Gov. Douglas's expedition along the East Coast of	XXIV.
and the Adjacent Coasts	XXVII.
AUSTRALIA.	
CENTRAL AUSTRALIA. Map to illustrate Kennedy's Route along the Rivers Victoria and Warrego	XXII.
NORTHERN AUSTRALIAN Expedition, under Augustus C. Gregory, Map illustrating	XXVIII.
Western Australia; Routes of the Expeditions under Gregory, Roe, and Gov. Fitzgerald	XXII.
tions in	XXVI.
OCEANIA AND ARCTIC.	
Arctic. American Expedition under Dr. Kane, north of Smith's Sound, Map to illustrate Discoveries of .	XXVI.
	XXVIII.
Coast Examined by Dr. Rae in 1851 (of Wollaston Land and Victoria Land)	XXII.
Explorations of Dr. Rae in 1854 (Pelly Bay, Simpson Peninsula, &c.)	xxv.
W. Kennedy in 1851-2	XXIII.
	XXIII.
Franklin's Course, and Irminger on Arctic Currents.	XXVI.
America, Shores of, to illustrate Collinson's Voyage in the Enterprise	XXV.
	XXIV.
Dr. Rink on Icebergs, &c.	XXIII.
Novaya Zemblya and Surrounding Seas, including Spitzbergen. By Augustus Petermann	XXIII,
	\mathbf{C}

Fig. Rows Piver and the William to the Table 1 Car.	Vol.	Page
Fiji; Rewa River and its Tributaries in the Island of Na Viti Leva	XXVII.	
New Zealand, Middle Island of	XXI.	
T. Thomson	XXVIII.	
MISCELLANEOUS ILLUSTRATIONS.		
CURRENTS of Atlantic and Pacific, Prevailing Surface. By A. G. Findlay	XXIII.	
of. By Capt. Sherard Osborn	XXVIII.	
LACONIA AND CYNURIA, Plans of Antiquities re-discovered in following the route of Pausanias from Thyreatis to		
Sparta. By LieutGeneral Jochmus	XXVII.	
Projection of the Sphere, New. By Sir John Herschel. (Two Plates.)	XXX.	
War Office, for Large Portions of the Earth's Surface.	XXX.	
DIAGRAMS AND CUTS IN TEXT.		
Angola, Ideal Section of	XXV.	232
Aneroid, Diagrams of the (1 to 5)	XXI.	46-48
BAROMETER, Suggested form of Travelling	XXIV.	334
FIELD BOOK Sketching, Example of	XXIV.	3 30
HIMALYA, Height of in relation to Height of Atmosphere .	XXI.	69
Projection, &c. Diagrams	XXX. 10	7, 109
THERMOMETER for estimating heights by Temperature of		
Boiling Water	XXIV.	341
Traveller's Triangulation, Diagram	XXIV.	351
Instrument box, Diagram	XXIV.	352

ABSTRACT OF THE ANNUAL ADDRESSES OF THE PRESIDENT OF THE SOCIETY.

ADDRESS FOR 1851.

- By Captain W. H. Smyth, R.N., &c., &c., President . . . Vol. XXI. p. lvi. The affairs of the Society improved, but it is still unaided by Government.
- Obituary Notices. Lord Bexley, lvii.—Sir Robert Peel; his services to scientific objects. Lord Nugent, lviii. General S. Mawbey. The Marquis of Northampton. Sir Patrick Ross. Sir E. G. Stannus, lix. Sir Lancelot Shadwell. Lord Stanley of Alderley; his exploration of Iceland. Capt. Owen Stanley, R.N.; his services as a Naval Surveyor and Explorer. Colonel Pierre Lapie, lxi. Professor Wahlenberg. F. Du Bois de Montpereux.
- Labours of the Society. Bequest by Mr. Shedden, lxii.—and other presentations. Means of Measuring Heights; Papers on the Aneroid by Col. Yorke and Dr. Buist, lxiii—Remarks by the President on the Aneroid, lxiv.
- Europe. Coast Survey of British Isles, lxv.—Beechey's Investigations of Tides; Calver's Chart of the Tyne; Coast Surveys in North America by Bayfield and Shortland, lxvi.—in the West Indies; Capt. Spratt's survey in Candia; treatment of Capt. Graves, Surveyor of the Archipelago. Capt. Stanley's Surveys in New Guinea, and Stokes's in New Zealand; Capt. Bates's in the China Seas; Captains Kellett and Pullen, lxvii.
- Ordnance Survey. Geological Survey of England. New Maps, by Arrowsmith, lxviii.—Saunders, Petermann; Penny Maps; Wyld's Great Globe, lxix.—Knight's Cyclopædia; Fullarton's Gazetteer; Blackie's Gazetteer; Lavallée's Military Topography, lxx.—French publications; Great Military Map of France; Map of Greece. Lelewel's Mediæval Geography, lxxi.—Sir T. Phillips's Portulano; Schlagentweits on the Alps, lxxii.—Ritter on Palestine; Berghaus; Wrede; Koch's Caucasus; other German works. Denmark; Prof. Schumacher, lxxiii.—Swedish and Norwegian arc Measurement; Maps by the Crown Prince; Nelsson and Thurmann on Antiquities and Surface-changes in Scandinavia; other Swedish work.
- Russian Work, lxxiv.—Geographical Society; Measurement of Arc; Ural Expedition, lxxv.; Sea of Aral; Statistical Atlas. Lundt's Visit to Greenland.
- Search for Sir J. Franklin, lxxvi. Collinson and McClure; Lady Franklin's Expedition under Kennedy, lxxvii.
- Asia. Trigonometrical Survey of India; Coast Surveys; McFarlane's Wind and Current Chart, lxxviii.—Oriental and Australian publications; Boundary of Nepaul, lxxix.—Abieh on Country between Black Sea and Caspian; Khodzko's Aseent of Ararat; Hommaire de Hell's Travels.
 - Rawlinson on Assyria and Lower Tigris; Increment of Euplirates Delta, lxxx.—Lieut. Strachey on the Himalya; China; Polynesia, lxxxi.—Schwaner's Travels in Borneo; Dr. Leichhardt's fate; Capt. Erskine's Paper on South Sea Islands, lxxxii.—Cannibalism; also in Borneo and other Islands, lxxxiii.
- Africa. Levels of the Isthmus of Suez; Geological inferences from researches of Lepsius and of Rochet d'Hericourt, lxxxiv.—Work in Algeria; Expedition of Barth and Richardson, lxxxv.—Western Africa; Livingstone's Explorations

north of Lake Ngami; Galton's Expedition, lxxxvi.—Missionary Hahn; Dolman and Gassiott; the Damara Country, lxxxvii.—East Africa; Journeys of Krapf and Rebmann; Snowy Mountains of Kilimanjaro and Kenia, lxxxviii.—the Nile Sources.

America. Coast Surveys of the United States, lxxxix.—Maury's Charts; McArthur's Survey of California and Oregon Coasts; Ringgold's Maps of San Francisco, &c.; Utah, xc.—the Salt Lake; Catlin on the Mandans; shortening of passage to New York; abridgment of Oceanic Voyages, xci.—Maury's Labours; Lieut. Davison, Tidal Geology, xcii.—Thornton's Ascent of Popocatepetl; Schomburgk at San Domingo; Mitchell on Ruatan Island, xciii.—The Mahogany Tree; M. Bonpland; Bollaert on Southern Peru; Papers connected with question of Canal across American Isthmus, xciv.—Capt. Fitzroy's views; Asa Whitney's Pacific Railway Scheme, xcv.

Concluding Remarks. Objects of the Society; Necessity of numerical precision in observations, xcvii-c.—Instruments for Travellers; conclusion, ci.

ADDRESS FOR 1852.

By Sir Roderick Impey Murchison, President . . . Vol. XXII. p. lxii. Growth of the Society, lxiii.—Proposals to Government for aid to the Society.

Obituary Notices. Sir Charles Malcolm, lxiv. Bartholomew Frere, lxv. Earl of Derby, lxvi.; his zoological collections. Viscount Melville. Comm. F. E. Forbes, r.n., lxvii.—other losses among members. Honorary Members; Baron de Walckenaer. Professor Schouw, lxviii. Oersted, lxix. Padre Inghirami, lxx. Gen. Clarke of Missouri.

Arctic Researches. Belcher and Kellett's Expedition, lxxi.—Arctic Committee's Report; Austin and Ommanney; Dr. Rae, lxxii.—Capt. Penny; Search for Franklin, lxxiii.—probable course; Licut. Pim's project for a Siberian journey, lxxiv.—the Russian Government disapproves, lxxv.—difficulties about despatch of the Isabel, lxxvi.—Story of two ships on an Ice-floe near Newfoundland; opposite views as to means of sustenance for Franklin's party, lxxviii.—opening towards the Pole by the Sea of Spitzbergen, lxxix.—Petermann's proposal, lxxx.—No practical North-West Passage, lxxxi.

Australia. Maps and other publications by Sir T. Mitchell, Roe and Gregory, Colonel Mundy, Mr. Melville, and Macgillivray, lxxxii.—Gold Produce of Australia; the President's anticipations in 1844; Col. Helmersen's also, lxxxiii.—anticipations of the Rev. W. B. Clarke, lxxxiv.—Wyld's Map of Gold Distribution; Conditions of Gold deposit; diminution of supplies from Siberia and California, lxxxv.—Sir R. Peel on effect of Gold discoveries, lxxxvi.

British Geographical Work, lxxxvi.—works on the Tides; Atlases of Keith Johnstone, lxxxvii.—Petermann's Maps, lxxxviii.—Findlay's Directory of South Sea; Gazetteers; Wyld's Great Globe; sundry books. Meteorology, lxxxix.—Rainfall of the Kasia Hills; Thurburn's Meteorological Journal at Alexandria; Capt. Allen's remarks on the Aneroid, xc.—want of meteorological observations from Africa.

Ordnance Survey of Scotland. The six-inch scale; necessity for completion of a map on smaller scale; a six-inch survey not a map, xci.

Guano Islands, xci ii.

Russia. Imperial Geographical Society, xeii.—its various publications; list of prominent papers in their Transactions, xeiii.—their Geographical News, xeiv.—their Compend. of Statistics; Geographical Keepsake; Geographical Almanac; Positions in N.W. Asia, and other matters of Asiatic Geography by Khanikof, xev.—Butakof's Survey of the Aral.

Sweden and Norway. Maps by the Crown Prince, xevi.—other Swedish Maps; Trigonometrical Survey; survey of the so-called "Sea bridge" on Norwegian Coast, xevii.

- Denmark. Zahrtmann's Voyage round the World; the Danish Royal Society of Northern Antiquaries, and their exploration of British and Irish antiquities.
- Prussia, &c. Humboldt's Kosmos, xcviii.—Ritter's Palestine; Berghaus; Erman on Temp. of Springs; various Atlases, Maps, &c.
- Bavaria. Completion of Map east of the Rhine in 113 sheets, xcix.—Geological Map of Bayarian Tyrol, and criticism.
- Switzerland. Ziegler's Maps, c.—admirable hill-shading; Chaix's Panoramic View of the Alps from Coligny, ci.
- Austria. Maps of Environs of Vienna; of Central Italy in 49 sheets; of Lombardo-Venetia, &c. Survey of Tuscany and Papal States, cii.
- Balbi's Geography, cii.
- Belgium. Dumont's Geological Map. Holland. France. Honours awarded to British travellers and others, ciii.—Maps and Charts of the Italian Coast; publications of the Marine Office; Coast Survey of Algiers, civ.—Great Military Map of France; Peytier's Map of the Kingdom of Greece; remeasurement of Boscovich's base line on Via Appia.
- Spain and Portugal. Verneuil's Geological Map of Spain, cv.—other works; Forrester's Map of Douro Wine Districts.
- South America. Sir W. Parish's work on the La Plata Provinces; Gage's Maps of Chilé; Castelnau's Travels, cvi.—Dr. Weddell's researches.
- Asia. Himalya, Tibet, and Hindustan. Dr. Hooker's researches, cvii.—Thomson's and Strachey's; Dr. Thomson's particularized, cix.—other travellers, cx.—Dr. Fleming's observations on Geology of the Salt Range; Prof. Oldham on Geology of Kasia Hills.
- China. Huc and Gabet; Fortune's Journeys. Manchuria. Travels of French Missionaries, exi.—Borneo, and Mr. Crawfurd's Paper on it; Sir J. Brooke; Mountain Kinibalu. Arabia. Dr. Carter's description of S.E. coast, exii.—its geology, cxiii.—comparison with the Periplus; Proposed Journeys of Dr. Wallin, cxiv.
- Projected new lines of Intercourse between Europe and Asia. Whitney's Pacific Railroad, cxv.—Capt. Synge's Scheme, cxvi.—Ragan's scheme for connecting Mississippi with Lake Michigan, cxvii. Euphrates Route to India.
- Africa. Oswell and Livingston's Journeys; the Zouga, exviii.—Great River at Sesheke (the Zambesi); the Slave Trade; Gassiott's Journey to the Limpopo; Galton's Researches, exix.—his observations on connexion of character of people and character of country; French Researches in North Africa, cxx.—D'Abbadie's Map of Ethiopia; Maps of Algiers and Bona, &c.; Lieut. Macleod's project for ascending the Niger, exxi. Comparative View of Africa in Primeval and Modern Times; Mr. Bain's Geological Researches, exxii.—and speculations suggested by them as to structure of the continent, as a fringe of old rocks formerly encircling an interior marsh or lacustrine country, exxiii.—whether a like structure extended to the Northern half of the continent; an exploration of Kilimanjaro and Kenia desirable; the Atlas, the Mountains of Western Africa not known as to character, exxiv.—Horner's suggestions as to age of Nile Deposits.

Conclusion, exxv-vi.

ADDRESS FOR 1853.

By Sir Roderick Impey Murchison, &c., &c., President . . Vol. XXIII. p. lxii.

Obituary Notices. Leopold Von Buch; his early works, lxiii.—Travels in Norway; explorations of Alps, lxiv.—Work on the Canaries; his indefatigable field labours; studies, lxv.—and characteristics. Vice-Admiral Christian Zanrtmann, Danish Navy, lxvi.—services and Hydrographic labours. General Joaquim Acosta; Works on New Granada. M.-General Colby, lxviii.—the Irish Survey; Tidal observations and contouring, lxx.—Col. Jackson, lxxi.—

Secretary to the Society; his works and contributions to the Journal, lxxii.—labour in indexing the Journals. George Dollond, lxxiii.—his instruments and inventions. Capt. Granville Loch, lxxiv.—his services, and fall in Pegu.

Arctic Discovery, and continued Search after Franklin. Rae, Kennedy, Bellot; argument for open Polar Sea, lxxvii.—speculations and remarks; address to Lady Franklin from Van Diemen's Land Legislative Council, lxxx.

Arctic Whale fisheries. Penny's Expedition, lxxxi.

Minerals, Glaciers, and Icebergs of Greenland, lxxxii.—Papers by Lundt and Rink; Icy period and erratic blocks, lxxxiii.

Geographical Progress. Russia, lxxxv.—Arc measurement; Geographical Society of St. Petersburg, lxxxvi.—Survey of Aral by Butikoff; Lehmann's Travels to Bokhara and Samarkand, lxxxviii.—Survey of Behring's Strait and adjoining lands, lxxxix.

British Isles. Ordnance Survey of Scotland, lxxxix.—question of scale, xc.—Lord Elcho's letter, xcii.—Correspondence with the Treasury on the subject, xciv.

Germany, xcvi.—Austrian Geological Surveys, xcvii.—Relief Map of Austria; labours of the Schlagentweits in the Alps, xcviii.

Switzerland. Ziegler's Maps; Swiss triangulation and differences with that of Austria, xeix.—Relief Map of Switzerland, xeix.

Sardinia and Piedmont. Della Marmora's Map of Sardinia, xcix.—Progress of Cartography of Piedmont; are measurement across the Alps, c.

Mountain Systems of Elie de Beaumont, ci.—Ancient Geography. Robinson's Journeys in Palestine, cii.—Lynch's Journey to tomb of Ezekiel; Jochmus on the identification of localities in ancient military history between the Bosphorus and Danube; Layard's Discoveries; Rawlinson, ciii.

Asia Minor. Tchihatcheff's 'Asie Mineure.'

Projects of new communication with East Indies, civ.—Chesney's line; Portions of Railway Schemes; Capt. Allen's Memoirs on Seleucia and the Dead Sea, cv.

Arabia, cvi.—Burton's Journey, cvii.

New Maps of Hindostan. Greenough's Geological Map of India, cviii.

China, Aracan. Tickell's Paper on the latter, cix.

Africa. Central African Mission, cix.—Death of Richardson; progress of Barth and Overweg, cx.—Death of Overweg; Vogel, cxi.—Scheme for ascending Niger; Rollet and Knoblecher, cxii.—Rev. Mr. Krapf, cxiii.—Stanislaus Magyar (Amerigo), ib.—Cooley's Map; Lake Ngami, cxiv.—Ibn Batuta.

United States. Survey of the Utah territory by Fremont and Stansbury; Geological Survey of Wisconsin, &c., by Owen, cxv.—Coast Survey under Prof. Bache, cxvi.—Agassiz on the Coral "Keys," cxvii.—American Ephemeris, and its merits, ib.; American Geographical and Statistical Society, cxviii.—Criticisms on a Paper there by Consul Hopkins; Survey of La Plata River.

South America, exix.

Isihmus of Darien and projects for Canal. Humboldt's indications; New Granada, cxx.—Mosquera's Work, and Seemann's; survey of Mexico and U. S. Boundary. Paraguay, cxxi.—diplomatic mission to open intercourse; Outlet from Bolivia; Bolivia and Dr. Weddell's narrative, cxxii.—French mission under Deville; Chili and Peru, Col. Lloyd's Report on Copiapo, cxxiii.—Rivero and Tschudi on Peruvian Antiquities, cxxiv.

Australia, its gold, and Geographical Exploration. Correspondences with the Ural; Rev. Mr. Clarke on the gold regions; Wathen on the gold regions, cxxvi.—probable progress of the gold working, cxxvii.—Progress of the Colonies under these discoveries; Wines grown, cxxviii.—Montgomery Martin's 'Australia'; Leichhardt; Project of exploration by Haug, and proposed use of camels, cxxix.—Fields for exploration; Arrowsmith's Maps; Great Geographical problem presented in the apparent interior termination of great rivers, cxxx.

Great Circle Sailing. Moore's Great circle Indicator, exxxi.

The Ocean, Currents, Tides, Bottom, &c. Homeric View of the Ocean, cxxxi.— Findlay's labours, cxxxii.—Tidal Expedition, cxxxii.—Lieut. Maury, cxxxiii.— French surveys in Chinese Scas. Deep-sea soundings, cxxxiv.—by Denham. Probable former large continent of which New Zealand is a relic, cxxxv.—Probable early geographical outlines were simpler, oceans broader, lands of less altitude, seas of less depth, cxxxvi.

Conclusion.

ADDRESS FOR 1854.

By the Earl of Ellesmere, &c., &c., President. . Vol. XXIV. p. lxxix.

Obituary Notices. Sir Charles Adam and Sir Frederick Adam. Capt. Price Blackwood, lxxx.—his labours as a Marine Surveyor in Torres Straits, &c. The Hon. Robert Clive, lxxxii. Col. James Nisbet Colquhoun, ib. T. Bucknall Estcourt, M.P., lxxxiii. Prince Emanuel Galitzin, ib. John Holmes, ib. Capt. Sir J. Everard Home, lxxxiv. Lieut. W. H. Hooper, ib. Professor Robert Jameson, lxxxiv. George O'Gorman, ib. Charles Stokes, ib. Hugh E. Strickland, lxxxv. B. L. Vulliamy, ib. Professor George Wallin, and his great accomplishments as an Eastern Traveller, ib. Lieut. Joseph Rene Bellot, lxxxvi.

Arctic Exploration, ib.—McClure, Belcher, Collinson, Kane. Bellot's Journal, lxxxviii.—His character and the Testimonial Fund, ib.

Labours of the Society, lxxxix.

Admiralty Surveys. England, lxxxix.—Alldridge's work in Bristol Channel; Calver's work in Humber and Tees; Dillon's in North Sea, xc.—Scotland; Thomas's plan of Firth of Forth; Bedford and Wood. Ireland; Church, Bedford, Beechey and Hoskyn. Baltic and Black Seas. China, Bate's surveys of Palawan. New Zealand, Drury's work, xci. Bay of Fundy, Shortland's work. West Indies, Parsons's examination of Port Escoces on Darien. South Pacific, Denham and Chimmo in the Fiji and Friendly Islands; Cape of Good Hope, Dayman. North America, Bayfield's work in Nova Scotia; his great services, xcii.

Ordnance Surveys, xcii.—Arrowsmith's Map of Crimea; Lectureship on Geography established in King's College.

France. Great Topographical Map completed. Holland and Belgium, xciii.—
Sardinia. Switzerland, Progress of Dufour's Trigonometrical Survey. Turkey,
Kiepert's Map; Ritter's Map of Euphrates and Tigris; Jochmus on the Balkan.

Asia. Hooker's book on the Sikkim Himalya, xeiv.—Burton's Journey to Medina and Mecca.

Africa, xcv.—Mansfield Parkyns; Barth and Vogel; Chadda Expedition; Death of Capt. Becroft, xcvi.—Livingston's progress and observations, xcvii.—Andersson's Journey to Lake Ngami; Proposed exploration of Eastern horn of Africa by Burton, xcviii.

America, xcviii.—Numerous exploring expeditions by the U. States; Herndon's descent of the Amazon, xcix.—Wallace's explorations on that river, c.—Explorations of the Isthmus of Darien; Maury's Sailing Directions; Perry's Exploration to Japan, ci.—Araucania; Page's Survey of the Plate River; Project of Railroad from Mississippi to Pacific; Stevens's exploration; that by Beale and Heap, cii.—that by Gunnison and Kerns; Fremont's expedition; exploration by Nollis, ciii.—Marcy's exploration of the Red River; Kane's account of his Arctic Expedition; Kohl's collection of Maps, &c., relating to discovery of America, civ.

Australia, civ.—Proposed Expedition in Northern Australia. Conclusion. Aid to the Society granted by Government, ev.

ADDRESS FOR 1855.

By the Earl of Ellesmere, President . . . Vol. XXV. p. lxxx.

Obituary Notices. Sir A. Barnard. Sir H. T. De la Beche. His geological labours and works, lxxxi.—his success in establishing the School of Mines, lxxxii.—Capt. John Becroft, lxxxiv.—his long services in Niger exploration. William Brockedon. Sir P. Broke, lxxxv. J. C. Burnett, his Surveys in Australia. Earl of Dartmouth, lxxxvi. Capt. James Fitzjames. Sir John. Franklin. His early naval service; his first arctic service, lxxxvii.—his famous expedition of 1819–22; Lady Franklin. George Bellas Greenough, lxxxviii.—studies under Werner; establishes the Geological Society; his books; his Geological Map of England, lxxxix.—his aid in establishing the British Association; his Geological Map of India; his bequest to the Society, xc. Joseph Hume, M.P., xc.—his aid to the Society. Sir Robert Harry Inglis, xci. Lt.-Col. John Augustus Lloyd; his services under Bolivar; survey of Panama; ascent of the Peter Botte at Mauritius, xcii.—Map of Madagascar; employment in Great Exhibition of 1851; appointment to Bolivia; Mission to Crimea and death. Lord de Mauley. R.-Admiral David Price. Francis H. Trithen, xciii.

Foreign Geographers. Beautemps-Beaupré. Admiral Roussin. Rochet d'Hericourt, and his explorations in Abyssinia. General Carbuccia. Vattier de Bouville, xeiv. A. Michelot.

Labours of the Society, xciv.—Rae's return; that of Belcher and M'Clure; news of Collinson's safety; Arctic discussions; Rapid progress of discovery in Africa; Andersson's Journeys to Lake Ngami and the Tioge River; Livingston's memorable Journey to Loanda, xcv.—the Niger-Chadda Expedition under Baikie; Tidings of Dr. Barth's return safely from Timbuktu and Kano; O'Connor's Tour from the Gambia to the Salum River; Abyssinia; Burton's Journey to Harar; Krapf and Rebmann on Snow Mountains of E. Africa; Burton's disaster at Berbera. Rebmann's account, from native information, of Lake Nyassi, xcvi.—Burton's Journey to Mecca, &c.—North Australian Expedition under Augustus Gregory; capture of cattle supposed to have belonged to Leichhardt's Expedition, xcvii.—discovery of islands in South Indian Ocean; French survey of the Straits of Gibraltar.

Presentation of medals by the Geographical Society of Paris to McClure, Inglefield, and Galton, xcviii.—Notice of various important publications.

Admiralty Surveys, xcix.—Republication of foreign surveys of Black Sea, Baltic, &c.; England; East Coast Charts; South Coast surveys, c.—Scotland; Ireland; Baltic, under Sulivan and Otter; Black Sea under Spratt; Cape of Good Hope; the Orange River, ci.—Bank discovered by Dayman; China; survey of R. Min leading to Fu-chau; charts of Russian possessions in N.E. Asia; South Indian Ocean, discovery of Islands (see above), cii.—Australia. New Zealand, under Drury; South Pacific, labours of Denham; America, chart of the whole North Coast. Nova Scotia, ciii.—Bayfield and Shortland; West Indies, under Parsons.

Ordnance Surveys. Scale question; progress of Scotch Survey; Col. James's estimate of cost, civ.—Map of England and Wales.

France. Marine Charts; Survey of Straits of Gibraltar; of Coast of Italy, cv.—of Ports of New Caledonia; Viscount Santarem's facsimile of Fra Mauro's Map; Jomard's Mediæval Maps.

Spain. Madoz's Great Geographical Dictionary; General Map ordered, cvi.

Portugal. Forrester's Map of Douro.

Switzerland. Progress of Survey under General Dufour; works of M. Chaix; his Map of the Waldensian Valleys; Ziegler's Map of St. Gall, evii.—report of discoveries of lacustrine antiquities; reduced Geological Map of Switzerland. Ziegler's Map of Madura.

Italy. The large Austrian Map of Central Italy, cviii.—French Survey of environs of Rome; ancient Ports and Harbours of Rome by Canina; Geodetic

operations in Roman States, cix.—Triangulation of Tuscany; Map of Piedmont; Geological Survey of Sardinia, cx.—Plans of Papal Towns; French Surveys of Neapolitan Coast.

Germany. Sundry publications; Seetzen's Travels, cx. Holland, cxi. Belgium. Scandinavia. Rink's drawings of ruins of European buildings in Greenland.

Asia. Indian Surveys. Great Trigonometrical Progress of. Topographical Surveys, cxii.—Revenue Surveys; Sheets of the Indian Atlas; Marine Surveys. Mr. Montgomery Martin's relief model of India. Tibet and China. Huc and Gabet's Journey, cxiii.—Siberia. Japan. U.S. Expedition; Bonin Islands, cxiv.—Borneo, &c., the Islands. Schwaner's Book. Wallace's explorations, cxv.—Mt. Ophir; Malacea; Sarawak.

Africa. Livingston's unparalleled Journey, cxvi.—Moffatt's Journey to King Moselekatsé; Andersson's continued explorations, cxvii.—wounded by a rhinoceros; Chadda River, Voyage of the Pleiad, cxviii.—success of Dr. Baikie; Portuguese explorations; Gamitto's narrative of Monteiro's Expedition to Cazembé, cxix.—Burton's return from the Somali expedition; his disaster at Berbera and death of Stroyan, cxx.—Lt. Speke.

The Nile. Brun-Rollet's Journey.

Suez Canal. Darfur; report of a great ruined city, exxi. Central African Expedition. Expected arrival of Barth; Vogel's communications; good report of the Sappers, Church and Maguire; of Mr. H. Warrington.

Arctic. Safety of Collinson, exxii.—some account of his Voyage; Rae's relics of Franklin's expedition; lecture by Dr. Scoresby, exxiv.—Kane's party; Monument to Lieut. Bellot. Review of Arctic Discovery by Count F. M. Erizzo of Verona.

North America. Long. of Kingston, cxxv.—Meteorological observations. Mineral specimens of Canada; Railways of Canada; importance of a reconnoissance of country west of Lake Superior; Geological Survey of Canada. United States; proposed survey between head-waters of Mississippi and Pacific; Prof. Bache's Report of the Coast Survey, cxxvi.—Recent American Publications; Bartlett on the expeditions connected with Mexican Boundary, &c.

Central America, exxvii.—Prevost's narrative; Trautwine's Survey of the Atrato and tracks to the Pacific, exxviii.—Survey between Lake Nicaragua and Gulf of Darien desirable. Smith's paper on Burica.

South America, exxix.—Talbot's American Expedition to the Upper Amazons; Maury's estimate of the Amazons Basin; Gibbon's narrative of Descent of the Amazons; Col. Lloyd's paper on communication by the Amazons. New Granada, exxx.—Peru and Bolivia; Castelnau's Itineraries. Chilé; Gaye's great work on; new survey of, decided on.

Australia. Fate of Benjamin Boyd, cxxxi.

Conclusion.

FOR 1856.

By Rear-Admiral F. W. Beechey, &c., &c., President. Vol. XXVI. p. clxxi.

Greenough's Bequest; Bust of Mr. Greenough; Issue of Society's 'Proceedings;' Obelisk to Bellot, clxxii.

Obituary Notices. John Adamson; his literary works. Charles Barclay, clxxiii. James Silk Buckingham. His early career; his travels in Palestine, Arabia, Mesopotamia, Assyria and Media, clxxiv.—his travels in America and Europe. His popular lectures and temperance labours, &c. Comm. Washington Carr, ib. Sir W. Chatterton. Chevalier James de Colquhoun. Maj.-General J. B. Bucknall Estcourt, clxxv. James Baillie Fraser, one of four remarkable brothers; his travels and works, and skill as an artist, clxxvi. Dr. George Hall. His travels in the East. William Hammond, clxxvii. Capt. Fortescue W. Harris. Dr. E. G. Irving, services and Journey to Abbeokuta. His

appointment as agent of the Ch. Missionary Society to the African coast, clxxviii. Rear-Admiral Ph. P. King, born in Australia. His Surveys in Australia and Narrative; Sailing Directions for Patagonia, &c., clxxix.—returns to Australia and dies there. Hon. Abbott Lawrence, clxxx. James Loch. Col. Sir Thomas Mitchell. Services in the Peninsula; appointed to Australian Survey; his explorations and services, clxxxi. Sir William Molesworth. Joseph Neeld, M.P. Sir Benjamin F. Outram, M.D. Sir William Edward Parry, clxxxii. His early naval services; his first Arctic voyage under Sir John Ross; second expedition urged by him, and put under his command, clxxxiii.—third expedition; fourth expedition, clxxxiv.—Attempt to reach a high Polar latitude by way of Spitzbergen ice; appointed to Australia; on his return a Poor Law Commissioner; Comptroller of Steam-machinery at Admiralty; Supt. of Haslar; Lt.-Governor of Greenwich Hospital; his works, clxxxv. Joseph Phillimore, D.C.L. Philip Pusey, M.P. Vicomte de Santarem, his works in illustration of Portuguese discovery and Mediæval Geography, clxxxvi. Rear-Admiral W. Symonds, clxxxvi. Don José de Urcullu. Lord Wharncliffe, clxxxvii. Capt. Samuel Widdrington. Count de Wielhorski, clxxxviii. Joseph Brook Yates.

Geographical Progress. Europe. Great Britain.

Ordnance Survey. Early objects and proceedings, clxxxix.—Results; deflexion of plumb-line, exc.—Survey of Scotland, exci.—question of scales; contours, exci.

Admiralty Surveys. South Coast under Cox, Usborne, Williams, Wells, exciii.—Bristol Channel under Alldridge and Hall; New edition of 'Channel Pilot;' Scotland; West Coast under Bedford and Creyke; Skye, &c., under Wood, Jeffery, Taylor, exciv.—Hebrides under Otter; Orkneys and Shetlands, Calver; Firth of Forth, Thomas; Ireland; N. East Coast under Hoskyn, Aird, Yule; Donegal, under Bedford and Herner; S. W. Coast under Beechey, Edye and Calver, Church and Veitch; death of Church, excv.—decrease of magnetic variation, excvi.—Baltic, under Sullivan and Otter. Black Sea under Spratt; Coast of Egypt, Mansell, excvii.—South Africa, Dayman and Simpson; Maclear's triangulation; Loss of the Birkenhead; Algoa Bay. Indian Ocean, excviii.—Evans's chart; Siam; Japan; Tartary; China; Gulfs of Pecheli and Leotung, excix.—Bate's Survey of Palawan Island; much yet needed in those seas. New Zealand, Chart of Stokes and Drury's Surveys, with sailing directions; Pacific under Denham, cc.—Nova Scotia, Charts, and Shortland's Surveys; West Indies, Port Escocés and Caledonia Harbour, by Parsons and Dillon. S. America, shoal of Las Rocas, cci.—Rio de la Plata, Sidney and Day; Falkland Islands.

France. Great Map of France of the War Office; Survey of Environs of Rome, ccii.—French Marine Surveys in Italy; Straits of Gibraltar.

Spain; Commencement of Uniform Survey, cciii.—Great Atlas of Spain and its Possessions, by Col. Coello; Verneuil's Geological Survey and barometric levels.

Italy. Piedmontese Map; Poncet's Heights in N. Savoy, &c.; Austrian Map of Central Italy, cciv.

Switzerland. Great Survey, Progress; Hypsometrical and Geological work; De Candolle's Botanic Geography.

Norway. Maps published, ccv.

Denmark. Publications chiefly archæological. Portugal, cevi. Germany. Hungary. Greece.

Arctic. Search for Franklin; Rae; Anderson; and relics of the expedition, ccvii.—Dr. Kane; Rogers's (U.S.N.) Voyage north of Behring's Straits; Return of Collinson; Belcher's Voyage, ccviii.—Sir R. McClure; Results of Arctic Exploration; Behring Straits Whale Fishery.

Africa. Barth's return, ccix.—Vogel's Progress, ccx.—Baikie's Chadda Expedition; Exertions of Sir R. Murchison, of the Society, and of Lieut. Lyons Macleod in regard to that object; various African notices of work by Gov. O'Connor,

Capt. Skene, Comm. Lynch, U.S.N., ccxi.—M. Raffenel, Escayrac de Lauture ccxii.—Brun-Rollet's Explorations on the Upper Nile; Missionary Erhardt's notice of the Inland Sea, ccxiii.—Arab journeys. Our still limited knowledge of Equatorial Africa; Burton's proposed expedition to the Inland Sea, ccxv.—Livingston's Researches; satisfactory character of his observations; Moffatt's Journey; Proposed Journey of Missionary Hahn, ccxv.—Mr. Andersson's labours; the Suez Canal.

Asia. India. The Trigonometrical Survey and its proceedings, ccxvi.—Topographical Survey of Punjab, ccxvii.—Ganjam Survey; Revenue Surveys; Indian Atlas; Marine Surveys; Karachi by Grieve; Strait of Malacca, and Preparis Channel by Ward. Turkey in Asia. Porter's Map of Damascus, &c.; Arrowsmith's new Map of Syria and Palestine; Loftus's paper on Journey from Busrah to Bagdad; Babylonian Cities, ccxviii.—Turco-Persian Boundary Commission; Glascott's Surveys; Jones's Surveys of Vestiges of Assyria; Rawlinson's labours. Persia. Abbott's Journeys, ccxix. Siam, Parkes's Notes. China, ccxx.

North America. Explorations for Pacific Railway; Beale and Heap's Journey; Col. Fremont's; U. S. Coast Survey; Work by Baird in Wisconsin, ccxxi.—by Marcy in Texas; Lieut. Couch's Journey in Mexico; Publications.

Central America. Squier's Researches; Survey of David Province, ccxxii.

West Indies. Cuba; Becher on Landfall of Columbus.

South America. New Granada. Course of Atrato; Kelley's exertions; Gilliss's work on Chilé, cexxiii.—work of Martin's on Vegetation of Brazil, cexxiv.—Page's (U.S.N.) Exploration of Paraguay Rivers, &c.

Australia. Gregory's N. Australian Expedition, ccxxvi.—Generous offers to aid it, ccxxvii.—Stokes on Steam communication with Australia; Torres Straits Navigation.

New Caledonia. Norfolk Island, ccxxviii.—appropriated to Pitcairn Islanders. Bonin Islands; question as to priority of possession, ccxxviii.

New Publications, ccxxix. Keith Johnston's Physical Atlas; Blackie's Imperial Atlas; Royal Illustrated Atlas; Ziegler's Map of Madeira, ccxxx.—Jones's Assyrian Maps; Santarem's Facsimile of Fra Mauro's Map; Monteith's work on Caucasian Countries; Hooker and Thompson's 'Flora Indica;' Burton's Narratives, ccxxxi.—&c., &c.

Physical Geography. Operations for reducing mean sea-level in Ireland, ccxxxi.—Maury's labours, ccxxxii-iii.—American Surveying Expedition; papers by Findlay and Irminger on Currents; Magnetic Science; Piazzi Symth's expedition to Teneriffe; Law of Storms, ccxxxiii.

Conclusion, cexxxiv.

ADDRESS FOR 1857.

By Sir Roderick Impey Murchison, &c., &c., President . Vol. XXVII. p. xciv.

Obituary Notices. Rear-Admiral F. W. Beechey; early naval service; and early arctic service under Buchan and Franklin, xcv.—under Parry; Surveying in the Mcditerrancan under Smyth; Voyage to the Pacific; Survey of West Coast of S. America; shores of Irish Channel, xcvi.—Papers on Tides; appointment to Board of Trade; Presidency of the Society; illness and death, xcvii. Earl of Ellesmere; ministerial employment, xcviii.—writings in the 'Quarterly;' on geographical subjects; on Arctic questions, xcix.—on the Fine Arts, c.—on martial subjects; Poetical Works, ci.—his address to the British Association at Manchester; his moral character, and large beneficence, ciii. Dr. William Buckland, ib.; awakening of his talent for geology, civ.—Readership at Oxford, cv.—his services to the science; Reliquiæ Diluvianæ, cvi.—Dean of Westminster; services as such; practical application of his science, cvii.—coprolites; his lectures, cviii. Lieut.-Col. Neil Campbell, ib. Capt. Thomas

Graves. Serves in scientific expeditions under Smyth and King, cix.—Surveys of Lough Neagh and of the Greek Archipelago; association with Edward Forbes; unhonoured by his own Government, cx.—Superintendent of the Ports of Malta; assassinated there. Lieut.-Colonel T. B. Jervis, ib.; service, surveys, and miscellaneous works. Rev. Thomas Halford, cxi. Sir James Meek, ib. James Meadows Rendel and his great engineering works. John Kenyon, cxii.—his poems; his munificence. Vice-Admiral Lord Radstock, his naval services, cxiii. Robert Anderson, surgeon; services with Arctic expeditions and natural history collections. Charles Elliott, cxiv. Lewis H. T. Tonna, ib. W. H. Pepys, ib.; his identification of the diamond with carbon, and other chemical labours. Baron von Hammer-Purgstall, cxv.—services as an Oriental Interpreter; devotion to Oriental Literature; his great literary labours, cxvi. J. F. Wahlberg, Swedish explorer in S. Africa killed by an elephant, ib. Dr. Elisha Kent Kane, cxvii. Early explorations in Indian Archipelago; in Egypt; on the West Coast of Africa; service in the Mexican War; first American expedition in search of Franklin; his own expedition north of Baffin's Bay; his generous and lofty sentiments, cxviii.—his visit to England; his death at Havanna, cxix.—funeral at Philadelphia; sum of his character.

Geographical Progress. Admiralty Surveys. England, cxx.—Minute Survey of Thames; Calver's on the East Coast, exxi.—Cox, Usborne, and Davis on South Coast; Williams and Wells in Cornwall; Aldridge and Hall in Bristol Channel. Scotland; Thomas and Sutton in Frith of Forth; Wick Bay; Sailing Directions for Orkney and Shetland; Wood and Jeffery on N.W. Coast; Bedford, Creyke, and Bourchier in Argyllshire, cxxii.—Otter in the Hebrides. Ireland; Hoskyn, Aird, and Yule in Antrim; Frazer and Bullock in Wexford; Beechey and others in Kerry; Terminus of Atlantic Telegraph. Line of deep-sea soundings across the Atlantic, cxxiii.—Black Sea; Spratt and Wilkinson at the Danube Delta, cxxiii.—Osborne on the Sea of Azov, cxxiv.—Mediterranean, depth. Africa; Mansell on Coast of Egypt, cxxv.—Soundings between Egypt and Rhodes; French Soundings between France and Algiers. South Africa. China Seas. Siam, cxxvi. Coast of Tartary. New Zealand. Pacific, Denham's work; Macdonald's Journey in Fiji, cxxvii. America; Vancouver's Island; Sidney in La Plata; Brazil; West Indies; Nova Scotia. Bay of Fundy; Bayfield's work in Gulf of St. Lawrence, cxxviii.

Ordnance Survey; progress.

Geological Survey; objects and system; the Museum, cxxx.—the Maps; questions of scale, cxxxi.

Physical Geography. Piazzi Smyth's Expedition to Peak of Teneriffe, cxxxii.— Specific gravity of Sea Water, cxxxiii.—Permanent effects of Winds and Currents; Cleghorn's observations at Wick, cxxxiv.—Remark on form of the Volga's banks, cxxxv.—speculations on a great Aralo-Caspian, cxxxvii.—Indications of direction of winds in past geological periods.

Useful Inventions. The Atlantic Telegraph. Its path, exxxviii.—distance, exxxix.—limitation of route by difficulties; form of cable and apparatus; ships eugaged, exl.—Piazzi Smyth's Free Revolver Stand, exli.—Col. James's new projection of $\frac{2}{3}$ of a Sphere. Metallic boats, exlii.—Bells on the Goodwin.

France. Exchange of good feeling, cxlii.—new charts and surveys.

Spain. Its Trigonometrical Survey, exliii.—Geological Map of Province of Madrid, exlv.—Coello's Maps; Linera on Sierra Nevada; de Prado's Survey of Palencia, exlvi. Researches of M. de Verneuil. Switzerland. Italy, exlvii. Rome. French Map of the Environs; Canina's Maps, exlviii.—Naples. Sardinia; Della Marmora's work. Germany, exlix.—Petermann's Mittheilungen; feeling about priority of publication in foreign journals of travels executed at British expense. Austria, el.—Establishment of a Geographical Society; the Voyage of the Novara. Russia. Hoffmann's Expedition to the Ural, eli. Exertions of the Imperial Geographical Society, elii. Exploration in Siberia. Volcanic action, eliii. Atkinson's Travels in Eastern Siberia, eliv.

Asia Minor. Jochmus on a proposed communication between Lake Sabanja, River Sakaria, and Gulf of Nicomedia.

Persia, clv.—Rawlinson's labours; changes produced in river-channels and their embouchures, advance of the Euphrates Delta, clvi.—question of Turco-Persian Frontier. Tibet, clvi. The Schlagintweits; Humboldt's sketch of their labours. Borneo, Mr. Wallace's explorations, clix.—Lieut. Crespigny; Rajah Brooke. Burma; Capt. Yule's Memoir and Map. Mr. Oldham's Geological Report, clx.

China. Sir John Davis's Paper.

Africa. Dr. Barth's Travels published, clxi.—Great difficulties of travel in those regions of Africa, clxii.—Overweg; Vogel and Maguire; reported murder of Vogel, clxiii. Renewed expedition to the Niger, clxiv.—by Baikie, May, &c. The White Nile, clxvii.—failure of Escayrac de Lauture's Expedition; it proceeds under Mr. Twyford, but is recalled from Dongola, clxviii. Livingstone's Researches, ib.—his arrival at Tetc. The President's former speculations on the internal formation of Africa confirmed; Livingstone's great merits as an observer, clxx.—his future aims, clxxi.

Australia, clxxii. Gold produce, clxxiii.—speculations on consequences in depreciation, and on future amount of produce; the rich soil and herbage of the North offer the best prospect for future settlements, clxxv.—Exploration of the Eastern cordillera, clxxvi.—the Gulf of Carpentaria; Cambridge Gulf; dry and salubrious climate, clxxvii.—fitness for convict settlements, clxxviii.—British occupation of Northern Australia imperative, clxxix.

North America, clxxx. British Possessions; Palliser's proposed expedition and objects. United States, clxxxii.—Coast Survey; Smithsonian Papers, clxxxiii.—American Geographical and Statistical Society; Perry's Voyage to Japan, clxxxiv.—Rogers's Maps; Kohl's Catalogue of Maps, &c., relating to America, clxxxv.—Kelley's survey of the Atrato. Central America.

South America, clxxxvi.—New Granada; Chilé, Plessis' Map; Peru and Bolivia, Bollaert's notices; Rio de la Plata; U. States Exploration; old Maps of the Parana, Uruguay, and Paraguay, clxxxvii.—Coast of Patagonia, clxxxviii. Orinoco; resumption of scientific investigations required. Observatory of Santiago, clxxxix.

Final Arctic Search, exci. Refusal of the Government, excii.—Lady Franklin's Expedition; Findlay's Essay; Possibility of Survivors, exciii.—most probable tract to find them not yet examined, exciv.—Captain McClintock in command of Lady Franklin's vessel, excv.—Capt. Allen Young; Lieut. Pim's proposed land journey; probability that Franklin really discovered the N.W. Passage, exevi.

Conclusion, excvii.

ADDRESS FOR 1858.

By Sir Roderick Impey Murchison, &c., &c., President . Vol. XXVIII. p. exxiii.

Obituary Notices. Rear-Admiral Sir Francis Beaufort; early naval services, exxiv.—his surveys in Asia Minor and work on Karamania; appointment as Hydrographer, and value of his labours; edited the Maps of the Useful Knowledge Society, exxvi.—services to Arctic Research. Rev. Dean Conybeare, exxvii.—his geological labours; his Report to the British Association in 1832, exxix.—his varied accomplishments, exxx. Rear-Admiral Sir John Ross, ib.—naval services and many wounds; his first Arctic voyage; his second voyage at Mr. Booth's expense; the vessel abandoned, and escape of the party after more than three years from their sailing, exxxi.—honours; works. Rev. Sir Henry Dukinfield, exxxii.—the Act called by his name; his benevolent labours. Mr. George Duckett, exxxiii. Earl Fitzwilliam; presides over first meeting of British Association, exxxiv. Lieut. J. Baptiste Holman the Blind Traveller, ib.; his loss of sight; appointed a Naval Knight of Windsor; his first published travels; travels in Siberia, and arrested as a Spy, exxxv.—his Voyage round the World; his continued travels; character, exxxvi. Joseph Ravenscroft Elsey;

surgeon and naturalist to North Australian expedition. Earl Spencer, cxxxvi. William Wilberforce Bird; services in India; temporary Governor-General, cxxxvii. Rev. Dr. Scoresby, cxxxviii. Early life in the whale fishery, and work on the Arctic Regions; Voyage to the East Coast of Greenland, cxxxix.—scientific researches; resolute observance of the Lord's Day in his ship; studies and enters the Church; continued interest in Arctic research and science, cxl. Baron von Reden. Dr. Vogel, cxli.—early studies as an astronomer; joins Barth; his death, and that of Corporal Maguire, cxlii.

Geographical Progress. Britain. Admiralty Surveys. Deductions in physical Geography from the Coast Surveys, exlii. England. Re-examination of the Thames, exliii.—Improvement of Tidal harbours on East Coast; South Coast Surveys, under Usborne and Davis, in Plymouth Sound, exliv.—under Williams and Wells in Cornwall; under Alldridge and Hall in Bristol Channel; West Coast harbours under Calver. Scotland; Argyleshire, &c., under Bedford, Creyke, and Bourchier; Inverness and Skye under Wood and Forbes, exlv.—and Jeffery; Hebrides under Otter, Thomas, and Clifton; admirable maps of these coasts; plans of anchorages in Orkneys. Ireland, exlvi.—East Coast under Hoskyn, Aird, and Yule; Donegal under Bedford, Sidney, and Horner; cost per mile of coast; Kerry under Edye and others. The Atlantic Telegraph terminus, exlvii.

Mediterranean. Black Sca; Danube Delta; Spratt's Report on the Mouths of the Danube, cxlviii.—Soundings and Currents of Sea of Marmora; Crete; Coast of Egypt under Mansell, cxlix.—Suez Canal. South Africa, Skead's surveys; suspension of Land Survey much regretted. Red Sea; Soundings. Ceylon, cl. China. Regretted death of Capt. Bates at assault of Canton, cli.—Pratas Lighthouse; survey of Canton. Siam. Plan of Bangkok and the River Menan. Australia, clii. New Zealand, Vancouver Island, &c., under Richards and others. River La Plata, and other South American Coast Surveys. Total eclipse of coming September, cliii.

West Indies; Chart of Cuba, &c.

United States. Charts published, cliv.

Nova Scotia. Shortland's work in Bay of Fundy; Orlebar and others on East Coast.

Evans's Variation Chart; other works of Hydrographic Office, clv.

Ordnance Survey. Scales; Photographic reduction; Commission appointed, clvi.—Reduction in grant and retardation of work; progress; question of Scales.

British Publications. Mrs. Somerville's 'Physical Geography,' New Edition, clvii.—works by Lord Dufferin; Mr. Atkinson on Tartary; Gladstone's 'Homer,' clviii.—Atlases, &c.

Continental Geography. Russia, clix.—arc of longitude measurement; equal level of Black Sea, Baltic, and Polar Seas, clx.—arc of latitude measurement; Trigonometrical measurements across the Caucasus; Imperial Geographical Society, clxi.—Exploration of Eastern Siberia; the Amur Survey, clxiii.—Exploration of the Altai and Kirghiz deserts; Lake Issikul, clxiv.—Expedition to the Caspian; Aralo-Caspian; Statistical Contributions from Russian Universities, clxv

Germany. Austria. Voyage of the Novara; Government Maps; Triangulation of Tyrol, clxvi.—Magnetical observations in Mediterranean. Other German work; Petermann's Mittheilungen; hypsometrical data in Central Germany, clxvii.— Dr. Roth's travels in Holy Land; Sandreczki's Journey to Mosul, &c., clxviii.— Zollinger's labours on Indian Archipelago; Heuglin's work on Abyssinia; a new confirmation of Bruce; the Musa Ensete; African travels of Ladislaus Magyar; Roscher on Ptolemy's Africa; Life of Leichhardt, clxix.—other works. Humboldt's Cosmos continued. Conversation with the author, clxx. Switzerland, clxxi. France, various Maps, clxxii.—Guillain's Voyage to East Coasts of Africa, clxxiii. Italy. Neapolitan Survey.

America, clxxiii.—Arctic Regions; Rink's Comments on Kane's discoveries; Lady Franklin's Expedition under McClintock, clxxiv.—Brown's work on the N.W. Passage, &c., clxxv.—British Possessions, Palliser's Expedition, clxxvi.—Geological Survey of Canada, clxxvii.—Survey of Canadian Rivers and Lakes by Murray, clxxviii.—Laurence's Survey of Island of Anticosti.

Ceⁿtral America, clxxix.—Honduras Railway; works on the Isthmus, &c., clxxx.—South America. Orinoco, clxxxi.—Ecuador; Chilé; Paraguay River.

Asia. Syria. Cyril Graham's visit to the Hauran and ancient cities of Bashan, clxxxii.—remarkable inscriptions; desiccation of the country. India. Schlagintweits, clxxxiii.—Ranges of Tibet, clxxxiv.—the Kuen Luen, clxxxv.—the Schlagintweits visit Khoten or Ilchi; British work in the Northern Himalaya, clxxxvi.—not overlooked; the Stracheys and others; Hooker and Thomson; Cautley and Falconer; unpublished researches of the latter, clxxxviii.—Geological Survey of India under Oldham, clxxxix. China; Hankow; the Yangtsekiang; changes in the Yellow River, cxc.—Chinese Geographical works; Russian intercourse with China, exci.—Fossils; the Mandarin Yeh, excii.—Chinese emigration. Asiatic Archipelago, still a great field for exploration; Borneo, exciii.—Ethnology; the Negro and Malay; population, its unequal distribution, exciv.—Wallace on the Arro Islands; speculations as to a former continental island; New Guinea; Lieut. de Crespigny on extreme Northern Borneo.

Australia, cxcv. Gregory's Expedition; fitness for settlement of Northern Australia, cxcvi.—Mueller's Review of Australian Discovery, cxcvii.—Gawler's Summary; gold produce of Victoria, cxcviii.—period of probable exhaustion of great produce, cxcxix.

Africa. Livingstone on Zambesi Expedition, cc.—difficulties; Niger Expedition, cci.—Ascent of the Congo by Hunt and Moresby. Central Africa, ccii.—Barth's concluding volumes and other labours; vast field of his researches, cciii. Cape of Good Hope, cciv.—Moffatt's survey of the Orange River. Ovampo; Andersson's projects; Senegambia. Mozambique, ccv.—Consul Macleod; Free Emigration; the Slave Trade in disguise; Portuguese charts of the Zambesi; Cotton Field, ccvi.—Currents of Mozambique Channel; Burton and Speke's Expedition, ccvii. Snow Mountains, ccviii.—Nile Sources.

Physical Geography, ccix.

Changes on the Globe's Surface. De Francy's Researches on laws of distribution of Land and Sea, and application of his theory to geological features, ccxi. Movement of Waves, ccxii.—Current Charts, ccxiii.—Gulf Stream and Arctic Currents; Deep-Sea Soundings, ccxiv.—Geological analogies, ccxv.—Atlantic Telegraph.

Conclusion, cexvi.

ADDRESS FOR 1859.

By Sir R. I. Murchison, President Vol. XXIX. p. cii.

Obituary Notices. Alexander von Humboldt; his education; studies with Werner, ciii.—friendship with Von Buch; his early works; Aimé Bonpland, civ.—their Travels; his residence at Paris, cv.—and publications; his expedition to Siberia; terrestrial magnetism; 'Kosmos,' cvi.—'Asie Centrale;' his interest in the Schlagintweits; his industry, cvii.—his talk and correspondence; his aid to young men of science; his influence with Fred. William IV., cviii.—his remarks on Russian geology, the Aralo-Caspian depression, on volcanic and igneous rocks, cix.—latest correspondence with the President, cx.—his regrets for Von Buch, cxi. Archduke John of Austria, cxii.—his military life; his institution of the Johanneum at Grätz, cxiv. Gerald Meyer, Swiss Historian and Geographer. Robert Brown, "Prince of Botanists," cxv.—Humboldt's view of him, cxvi.—Eulogium by Martius of Munich, cxvii.—how little known by "higher circles," cxviii.—his later researches in fossil botany; his admirable character, cxix. Henry Hallam; a founder of the Society, cxx.—Mr. Grote's character of him

as a historian. Earl of Ripon, cxxi.—first President of the Society, cxxii. Henry Warburton, cxxiii.—as a geologist, and President of the Geological Society; reluctance to publish; his political career; mathematical studies, cxxv.—liberality to science. Lieut. Henry Raper, r.n., cxxvi.—his sea service; his 'Practice of Navigation,' cxxvii. Sir Arthur de Capell Brooke, cxxviii. William Weir. Earl of Haddington, cxxix. Sir Charles Felix Smith, k.c.b. Sir Belford Hinton Wilson, k.c.b., cxxx. Major H. Seymour Montagu. Maj.-Gen. Sir William Reid, k.c.b. Services in war, cxxxi.—his 'Law of Storms.' Admiral Sir Charles Ogle, cxxxii. Capt. Sir William Peel, r.n. Comm. G. F. Mecham, r.n., cxxxiii. Comm. Paulson, r.n., cxxxiv. Sir James Ramsay. Sir E. N. Buxton. Rev. Dr. Jenkyn. Richard Taylor of Norwich, cxxxv. Abel Smith, cxxxvi. R. Holmes Laurie, Nautical Publisher. Wm. Kennett Loftus, cxxxvii. Adolphus Schlagintweit; his death near Kashgar.

Geographical Progress of Past Year, cxxxviii.

Admiralty Surveys, exxxix. England; East Coast, Hartlepool Bay; South Coast; Channel Islands; 'Channel Pilot,' exl.—Cornwall; Eddystone Rocks; Bristol Channel. Scotland, exli.—Argyllshire; Skye; Hebrides; intricate nature of the Coast, exlii. Ireland; East Coast, Donegal, exliii.—Kerry. Mediterranean. Malta and Gozo Channel; Nile Delta, and Pelusium by Capt. Spratt; Syrian Coast, exliv. South Africa. Red Sea; soundings. Ceylon. China. Japan. Australia, exlv. Belcher's re-examination of longitudes from Madras eastward. Indian Survey, and Review of what has been done and remains to be done in Marine Survey of East Indies and China, exlv—el. America. Rosario and Haro Straits, &c., el.—Nova Scotia; West Indies, cli.—Soundings from Azores to England; Variation Chart by Mr. Evans; work of the Hydrographic Office, clii.

Land Surveys. Ordnance Survey. Photographic Reduction of Maps; Report to Parliament. Geological Survey, cliii.—needs of Scotland; in the West Indies, cliv. Of India under Prof. Oldham, clv.

Physical Enquiries. Progress of Meteorology; arrangements for collection of observations, clvi.—new branches of the study; Stark on the Temperature of the Sea round Scotland, clvii.

Earthquakes and their Study. Volger's chronology of earthquakes in Switzerland; relations with volcanic action; Mr. Mallet on the Dynamics of Earthquakes, clix.—and his Reports to the British Association; his Earthquake Catalogue, clx.—his exploration of the site of last great earthquake in the Kingdom of Naples, clxi.

New Publications, &c. Manual of Geographical Science by Bevan and Nicolay; Sir John Herschel's new Projection; Prof. Piazzi Smyth's visit to Peak of Teneriffe; new Maps by Arrowsmith, clxii.—Atlases, by Keith Johnstone; Nelson's, clxiii.—Weekly Dispatch Atlas; Fullarton's Royal Illustrated Atlas; and Gazetteer, Blackie's Imperial, clxiv. Germany. Mayr's Alpine Atlas; Barth's Travels; Spruner's Historical Map of Europe, &c.; Sonklar on Tyrol Glaciers, &c. Petermann's 'Mittheilungen,' clxv.—Roth's Palestine. Russia, clxvi. Mission of Schmidt to the Amur; Golubef's observations on the frontier; Expedition to Khorasan, clxvii.—the River Ussuri, tributary of Amur; levels of Russia. Switzerland, clxviii.—Ziegler's Maps; Alpine Club. France, &c., clxix.

Asia. Persia. Ascents of Demayend by Mr. Thomson and Lord S. Kerr; height of the mountain much greater than that of Ararat, clxx.—whilst Jibel Judi in Kurdistan is according to Rawlinson much higher than Demayend. China, Japan, and New Guinea. Capt. S. Osborn's descriptions of the Chinese coast; Lord Elgin's ascent of the Yangtsekiang, and Mr. Oliphant's account of it, clxxi.—rapid changes in the lower part of the river's channel, clxxii.—Observations on the great river; lesson taught as to uncertainty of evidence of time from thick deposits of alluvium, clxxiii.—former accounts of population of its banks thought to be exaggerated, clxxiv.—Mr. Lockhart's paper on the river; Mr. Crawfurd's Leeds Lecture on China, clxxv. Japan; Lord Elgin's Treaty; Japanese enlightenment and mechanical skill, clxxvi.—prospects of trade; Mr. Wallace and Dr. Müller on New Guinea, clxxvii.—coal-field of Borneo and

Labuan, clxxviii.—Proposed Canal across the neck of the Malay Peninsula; Sir James Brooke.

Africa. Captains Burton and Speke, clxxix.—Services of Capt. Speke; their Journey to Usambara, clxxx.—their great expedition into the interior; Lake Tanganyika; suffering of both travellers from blindness, clxxxi.—Speke's Journey to Lake Nyanza; his idea that it is the chief Nile Source, clxxxii.—the alleged Snowy Mountains; Speke's proposed new journey, clxxxiii.—relation of the supposed Snow Mountains to the Nile; Mr. Macqueen's paper on the White Nile, clxxxv.—probability of Speke's view; Werner Munzinger's Researches in Abyssinia, clxxxvi. Delta of the Nile; Capt. Spratt's investigation of the transfer eastward of the Nile sediment; unfavourable effect on the Suez Canal Project, clxxxvii. The Niger Expedition; clxxxviii.—Mr. May's Journeys in Yoruba, clxxxix. Livingstone's Zambesi Expedition, exc. The Sechelles Islands, from paper by Mr. L. Macleod, exci. Cotton, exciii.—particularly with reference to Africa; growth of the palm-oil trade, exciv.—the shea butter; vegetable and insect wax.

America, exev. Capt. Palliser's Expedition; its objects and results; his Survey of the Rocky Mountains, exevi.—and Dr. Hector's observations; the Vermilion Pass, exevii.—the great and little-known labours of Mr. David Thompson in the Survey of those regions (note); railway schemes of Capt. Synge and Mr. Asa Whitney, exeviii. British Columbia, exeix.—old notices of that region, ec.—the gold discoveries; protection of the Indians—bishopric endowed by Miss Coutts; characteristics of the Gold Field, eci.

Arctic Researches. Capt. McClintock's Explorations, cciii.—backwardness of the Government, cciv.—recent American projects of Arctic discovery.

Progress of Geography in the United States, ccv. Surveys in illustration of railway line to the Pacific; Mr. Baird's zoological report; state paper of instructions by Mr. Jefferson Davis, ccvi.—U.S. and Mexico Boundary Survey; Blodget's Climatology of the U.S., ccvii.—Rogers's Geology of Pennsylvania; New American expeditions (note), ccix.—Boston Conservatory of Arts and Sciences, ccx.

Central America. Honduras Railroad; Nicaragua Canal scheme.

South America, ccix.—Page's Exploration of the Rio de la Plata; ascent of the Parana; great changes in channels; Spanish version of Sir W. Parish's work, ccx.

West Indies. Discovery of phosphatic rocks among the Anguillas Islands.

Australia. Gregory's Journey from Moreton Bay to South Australia, ccxi.—Fate of Leichhardt, ccxii.—Explorations westward and northward from S. Australia; Messrs. Babbage and C. Gregory, ccxiii.—Major Warburton, Geharty, Parry and Burt; Mr. McDougall Stuart's discoveries, ccxiv.—his great merit. Navigation of the Murray, Murrumbidgee, &c., ccxv.—great progress of that region, ccxvi. New Zealand, ccxvii.—Hoch's letter (of the Novara) on the coal of that colony. Tasmania, ccxviii.—geological surveyor appointed.

Sir W. Denison's proposal for organized observation in natural science throughout the British Colonies, ccxviii.—materials in Australia for such a work. Importance of a station in the North of Australia, especially with reference to the establishment of the French in New Caledonia, ccxx.

Conclusion. Growth of the Society, cexxi.—claim on Government for accommodation, cexxii.—Royal Charter, cexxiii.—election of the Earl of Ripon (De Grey) as President.

ADDRESS FOR 1860.

By the Earl de Grey and Ripon, President . . . Vol. XXX. p. c.

Obituary Notices. Col. George Baker, c.—military service; employment on Survey in Turkey, ci. Sir T. Makdougall Brisbane; military services, cii.—

Government of New South Wales, ciii.—his love of science and practice of astronomy, civ.—establishes Observatory at Paramatta; and at Makerstoun; his distinguished career, cv.—character by Admiral Smyth, cvi. Isambard K. Brunel; his great works, especially in Atlantic Steam Navigation, cvii. Hon. Mountstuart Elphinstone; his service in India, cviii.—his Mission to Kabul; his Residence at Poonah; his History of India, cix. William Richard Hamilton; his diplomatic life; the Rosetta Stone; the Elgin marbles, cx.—his services to Science and Art, cxi.—his Presidency of the Society, and commencement of Annual Addresses. Lieut.-Col. W. Martin Leake, cxiii.—Service in Turkey and the East; researches in Egypt and Syria, cxiv.—employment in European Turkey and Greece; his valuable geographical works, cxv. Lord Londesborough, cxvi.—archæological services, cxvii. Baron Melvill van Carnée, exviii.—nautical works and Maps. Capt. W. Moorsom, r.n., cxix. Archdeacon W. F. Raymond. Carl Ritter, cxx.—his studies; his lectures; his great Geography. Dr. John Simpson, cxxi.—Arctic service. Robert Stephenson; early life; studies; mining employment in S. America, cxxii.—engineering works; character, cxxiii. Sir George Thomas Staunton, cxxiv.—Goes to China as page with Lord Macartney, having previously studied Chinese at Naples; returns to China in the E. I. C. Service, cxxiv.—Chinese studies, cxxv.—member of Lord Amherst's Embassy; his opposition to the Kotow, cxxvi. Comm. C. Tindal, r.n. Rear-Admiral Henry Dundas Trotter, cxxvi.—his services, and interest in Slave Trade suppression. Rev. David Williams, cxxvii.—Comm. James Wood, r.n. Other members deceased, cxxviii.

Geographical Progress. Admiralty and Coast Surveys. England. Tyne River; Thames, cxxix.—Dover, South Coast, and Channel Islands; Bristol Channel; West Coast, cxxx. Scotland. West Coast; Hebrides. Ireland, cxxxi.

France. Spain; great errors of longitude in existing maps, exxxii. Mediterranean; French Surveys of Strait of Gibraltar; Surveys in Archipelago; Syrian Coast, exxxiii. Desiderata in Geography of the Holy Land. Deep-sea Soundings, exxxv. South Africa, exxxvi. Banka Strait. China Coast. Coast of Tartary, exxxvii. Australia. British Columbia, exxxviii. Canada. Bay of Fundy, exxxix.

W. Indies and S. America. Fitzroy's Sailing Directions, &c. Variation chart and other works of Mr. F. Evans; how much accurate knowledge is needed, cxl. Hydrographic Office.

Topographical Department of War Office. Ordnance Survey. Level Points, exli.—Question of Scales; Photographic Reduction, exlii.—Progress; Photo-zincography, exliii.

Topographical Depot, exliv. Catalogue; nature of the collection.

Meteorological Department of Board of Trade, cxlv.—progress in reducing the science to accuracy; law of storms; diffusion of information, cxlvi.—instances of results of observations; the barometer as affected by coming changes, cxlvii.

America. Capt. McClintock's discovery of relics of Franklin, exlix.—Franklin's expedition the first discoverers of the N.W. Passage; contents of the record found, cl.—Sir L. McClintock's narrative, cli. Dr. Hayes's narrative, and projected new expedition; other Arctic projects; Alderman Hopkins's proposal for reaching the Pole, clii. North Atlantic Telegraph. British N. America. Palliser's Expedition; arrival on Columbia River; detail of explorations; Hind's Expedition to the W. of Lake Superior, cliv.—singular deep river channels in Saskatchewan and Red River Prairies, clv.—Basin of Lake Winnepeg and its capabilities; Dawson's Expedition, clvi.—Capt. Synge's Project; ascent of a Volcano in Mexico. Central America. Honduras Railway. S. America, clvii. Pritchett, Spruce, and Jameson on Ecuador. Chilé; Wheelwright's Railway Project; coal-working. Brazil, &c., clviii. Patagonia. Tierra del Fuego. Falkland Islands.

Africa. Burton and Speke's Journey; question of Lake Tanganyika and its drainage, clx.—comparative level of the Lakes, clxi.—Speke's new expedition, clxii.—Dr. Roscher; Baron von Decken, clxiii.—Consul Petherick's daring Journey

South of the Bahr-al-Ghazal; Mr. Cyril Graham's Journeys in Egyptian Desert; Or. Livingstone, clxiv.—chaotic results of journeys without accurate observation; most of the Portuguese such, except Lacerda's; Andersson's Journeys in S. W. Africa, clxv.—Sanderson's Trading Trip in Orange River Sovereignty, &c.; Du Chaillu's Travels in W. Africa, clxvi.—French expeditions from Senegal and Algeria projected; Ismael Bonderba's excursion from Algeria to Ghat, clxvii.—Liberian expeditions; Quanga; Travels of Crummell, Delany, and Campbell, of African descent, clxviii.—their good reception in the interior, and economical travelling, clxx.

Asia. Sir Eyre Coote's Journey from Bussora to Aleppo; Dr. Wortabet on Hermon, &c.; Capt. C. Clerk's Routes in Persia; Baron de Bode on Daghestan, &c.; Dr. Buist on Kuria Muria Islands. Hindustan. Papers on Kashmir, &c., by Capt. Godwin-Austen and Mr. Purdon, and Capt. Montgomerie's Map; some of the larger statistics of India, clxxi. Indo-Chinese Countries, clxxii.—the Karens; propagation of Christianity among them; Mr. O'Reilly's Diary; Sir R. Schomburgk on Siam; progress of commerce in Siam, clxxiii.—M. Mouhot's letter on Cambodia; account of that country by Mr. Campbell. China, clxxiv. Mr. Mickie's Diary of a voyage on Chinese coast; Lieut. Brine's account of the Si-Kiang or Blue River; Remarks on Population and Trade of China; Map of Chinese coast by Major Sherwill, clxxv. Indian Archipelago; a few larger statistics, clxxvi. Japan.

Australia. Sir R. Macdonnell's Expedition, clxxvii.—Randell's Voyage on the Darling River; Macdougall Stuart's Discoveries; Douglas's coasting charts; new Harbour in Qucensland, clxxviii.—Maps of Queensland and Tasmania; Professor Jukes's Lecture on Australia; the Interior Desert; salubrity; pastoral adaptation, clxxix.—mineral wealth; progress.

Europe. Russia. The Amur, clxxx.—Central Asia; Capt. Golubef's Surveys between Lake Balkash and the Thian Shan; Lake Issyk Kul; Michell's paper on Russian Trade with Central Asia; Nebolsin's work on Central Asia, clxxxi.—Khanikof's Khorasan Expedition; corrections of existing maps; project of navigable communication between Caspian and Sea of Azov; Dr. Bergsträsser's investigations and proposals; Geographical Society of Russia, clxxxii. Sweden and Norway, clxxxiii. Denmark. Germany. Prussia. Austria, clxxxiv. Turkey. Major Stokes's Paper on the Danube. Holland. Belgium. France. Coast Surveys of Spain, Sardinia, and Italy. Sardinia, clxxxv. Switzerland. Progress of the great survey; various publications.

Recent (British) Publications. Atlases, clxxxvi.—Fullarton's; Blackic's; Kcith Johnston's Royal; Weekly Dispatch. Sir E. Tennent's 'Ceylon;' Dr. Thompson's work on New Zealand, clxxxvii.—Beke on the Nile Sources; Oliphant's 'Narrative of Lord Elgin's Mission to China;' Atkinson's 'Siberia,' clxxxviii. Consul McLeod's 'Eastern Africa;' Krapf's Travels and Labours; Hughes's 'Manual of Geography;' Encyclopædia Britannica, clxxxix.—Bollaert's 'New Granada, Ecuador, Peru and Chilé;' Davis's 'Carthage;' Projections by Sir J. Herschel and Col. Sir H. James. Great Circle Sailing. Star Maps.

Progress of the Society, exc. The President's resignation of office, exci. Conclusion.

INDEX

TO THE

THIRD TEN VOLUMES OF THE JOURNAL OF THE ROYAL GEOGRAPHICAL SOCIETY.

ABADAN.

A,

Island, Euphrates mouth ABADAN (Mesene; Apphana of Ptolemy; Appadan of Marcianus), xxvii. 188.

ABAGAITU on the Argun, Russo-Mongol frontier, xxviii. 414.

ABAJO, town of Yoruba, xxx. 220.

Abana (Barada) River, of Damascus. See Barada.

ABANDON Bay, driftwood, possibly of Franklin, found at, xxvi. 27.

ABBADIE, Antoine d', Map, &c., of Ethiopian regions visited by, xxii. p.

Abban or Protector on coast below Abyssinia, his rights and duties, xxv.

Abbassabad, Kerman, Persia, xxv. 63. Abbeokuta, West Africa, xxx. 214.

Abbott, Consul Keith E., his Itineraries in Persia spoken of, xxvi. p. ccxix.

—–, Geographical Notes during a Journey in Persia, in 1849, 1850, xxv. 1—from Tehran to Savé by Kum; Savé, 4—saltpetre-making, 5—Marco Polo's legends of Savé, 6—Kuh-i-Nimak (Salt-Hill), 8
—Kum, 8-10—Ispahan to Yezd;
dreary plain, 11—Mezraehs, what, 14
—Nain, 15—Aghda, 17—Meybut,
18—Reach Yezd, 20—Yezd by Bafk and Zerend to Kerman. Guebres, 21 —Bafk, 23—date-palms; Zerend, 27 —lead-mines; Kerman, 29—Kerman to Khubbes, and through southern districts of Kerman to Shiraz, 29—Khubbes, 33—poisonous wind, 34—

ABBOTT.

Khubbes misplaced in maps, 35— Castle of Andujerd, 36—Gowk, 38— Bumm, 42—humped oxen, 43—Shahri-Daghianus, ruins, not Polo's Camandu, 47—Dervishes, their civility, &c., 48 — hawking, 50 — Kehnu; Ahmedi, 55 — Polo's route from Kerman to Hormuz, 56—Aliabad, 61 —length of the Farsakh; Jerboas; marmots, wild asses, 62; ancient turquoise mine of Pariz, alluded to by Polo, 63—ruins of Kaleh Sung, 64; Ghez (Manna), 65—Kheirabad, 67—wild asses, 67, 68—Kutru, 69— Neyriz, 71—Lake of Ditto, or Bakhtegan, ib. and 73—Kheir, 74—Kaleh Turenji, 75—saddles, European and Asiatic, 77—Shiraz, 78.

Abbott, Consul Keith E., Notes of Journey eastward from Shiraz to Fezza, and then westward by Jeh'rum to Kazerun, xxvii. 149—leave Shiraz; bearings near it, 149—Salt Lake, 150—Mahalla; Servistan district, 151—plain of Fessa, 153—tomb of Cyrus not found; locusts; tomb of Felamerz, son of Rustum, 154 - Kaleh Zohak; camp of Iliyats, 156—Darabjèrd, 158; Kalah Darab, 159 — Naksh-i-Rustum sculptures, 160 — Jehrum, 164—cheap grapes, 165 — Mubarekabad, 166 — fort of Purghan, 168—the Eel Beghi; Kashgai and Khaliz tribes, 170—inoculation among nomads, 171-Kir, 172chasm of the Firuzabad stream, 174 —Firuzabad, 175 — terms of land tenure, 176 — the Tang-Ab and sculptured tablet, 177—Atish-gah, or

ABD-EL-KADIR.

Fire Temple, 178—Ferashbund, 179 —Famour Lake, 183—Kazerun, 184 —return by Baghdad and Kermanshah to Tehran.

ABD-EL-KADIR, Sultan of Agadez; Barth's interview with, xxi. 138—his hospitality, 139 — ceremony of his Investiture; expedition against plundering tribes, 140 — gives Barth letters of recommendation, 141.

Abdue, Fars, xxvii. 117.

ABEELAH Mountain and Wadi, between Tintellust and Agadez, xxi. 163.

Abeih, near Beirut, American Mission School at, xxiv.

ABERNETHY, Icemaster of the Isabel xxiii. 139.

ABHICATE (for Ab-i-Haiyat), Canal in

Irak, xxx. 205.

ABICH, Prof. H., On country between Caspian and Black Seas, xxi. 1 extraordinary diversities of climate; great cold of Steppe between Caspian and Aral. Caucasus, its general character and geology; three independent volcanic regions north of Central chain, 2—south of the chain; granite ridge called by Strabo "knee of Caucasus," dividing Colchis from Iberia; Armenian Highlands or Lower Caucasus, 3—parallel chains of volcanic vents on either side of Araxes; different heights of snow-line in Upper and Lower Caucasus, 4—great deflexion of Isothermals to the south on reaching the Caspian, 5 — great discrepancy in mean temperature of seasons, in different places of this tract, and consequent astonishing variety of production. Occasional great winter cold on the Caspian, strong summer heat and consequent peculiar vegetation, 6 — Baku, warmer in summer, milder in winter than Lenkoran, with five times the rainfall; causes; change of climate south of the Kur by destruction of woods, 7—contrast of moist and wooded Imeretia and Mingrelia, sheltered by Caucasus and Meskian mountains, with Caspian Georgia. Intermediate position of Tiflis, 8—west of this the insular climate of southern Europe, east of it the continental climate of Asia; the latter character with its extremes increases in approaching Armenian Highlands; climate of Ararat; Alexandropol compared with Canada, closely approaching it in temperature of the

ACHO.

seasons. Great dryness of the air in high plain of Armenia, 9-intense evaporating power and bearing upon health. Relation of the winds to this.—Meteorological Tables, 11, 12.

Abich, Prof. H., referred to, xxi. p.

lxxix.

Ab-I-Gargar, canal from the Karun at Shuster, xxvii. 129.

'ABIL, near the Litany, Syria, xxiv. 24.

Abila, remains of, Antilibanus, ib. 29. 'Abilin, south-east of Acre, ib. 8.

ABO, capital of Ibo or Igbo on the Kwora River, xxv. 111.

Aborigines of Arabia now (according to Burton) found in the eastern wilds, xxiv. 209.

Abotte, south coast of Africa, xxx. 141. Abra (Pass) de Pichuta, below Isluga, South Peru, xxi. 118.

Abraham's Oak at Hebron, xxvi. 59. ABRENDABAD, Yezd, Persia, xxv. 20.

Abu Chef, Babylonia, xxvi. 134. - Gosh, between Jaffa and Jeru-

salem, xxvi. 56. - Menhail, mud-fort, Babylonia,

xxvi. 139.

Abulla, North-West Mexico, xxx. 9. Abutua, south of Zambesi; gold-washings, xxvii. 379-mountains of, the limit of Portuguese conquests from

Sofala, xxx. 156.

Abyssinia, Memorandum on, communicated from the Foreign Office, xxv. 215—nature of institutions; powers of the Ras; his policy; feudal chiefs and their claims; duties exacted, 216 — laws; northern Abyssinia, 217 tribes between it and Red Sea.

--, xxix. p. clxxxvi.; has little intercourse with rest of Africa, xxx. pp. 112, 123.

Acaguapa River, San Salvador, xxviii. 352.

Acapiala Plain, San Salvador, ib. 357. Accuracy of observations in present state of geography, necessity for, xxi. p. xcvii.

Acelhuate River, San Salvador, xxviii.

Achelöus River, Ætolia, xxvii. 3, 7. Acheron Vale, Middle Island, New Zealand, xxi. 30.

----, H.M.S., xxi. 25, 28. Achilan, Manchuria, xxviii. 408.

Achilles, Temple of, supposed traces on Serpent Island, Danube mouth,

Acno, in Balti, the most westerly point

ACLA.

of Tibet, xxiii. 10—deep fissure of the Indus at, 17, 30, 37.

ACLA. See Agla.

Acosta, Don Joaquim, Obit. Notice, xxiii. p. lxvii.

Acræ, Ætolia, xxvii. 7. Acre, Syria, xxvi. 45.

ACTÆON'S Mount, St. Helena, xxx. 264.

ADAIEL, Mahomedan tribe west of Red Sea, xxv. 217.

ADAM, Sir Frederick, Obit. Notice, xxiv. p. lxxix.

—, Sir Charles, Ditto, ib.

Adamawa, Negroland, xxv. 116—projects of Vogel and Barth to reach, 240, 245.

Adams, Mr., of Collinson's Expedition, xxv. 196.

Adamson, John, Obit. Notice, xxvi. p. clxxii.

Adan River, Manchuria, sables from, xxviii. 388.

Adansonia, in North-West Australia, uses of its fruit as food and antiscorbutic, of its sap as a substitute for water, &c., xxviii. 146. See Baobab. Adder, poisonous, in Milo, xxii. 223.

ADDERAY, inland from Somal country, East Africa, xxv. 206; few words of language, 214.

Addi or Adza, Gilyak village, Amur, xxviii. 438.

ADELAIDE Peninsula, Great Fish River, xxvi. 24.

Aden, currents in Gulf of, xxiv. 233 caves in ditto, 235—crater of, 237 objections to branch steam line from Aden to Australia, xxvi. 186.

Aderer, mountains, two regions, one south, one west of Sahra, xxx. 113.

Adi River, near Kilimanjaro, xxx. 130.

Addie on thermometers, xxvii. 37.

Admiralty Island, Arctic Sea, 91.

— Archipelago, Chadda River, xxv. 113.

- Inlet, Washington Territory, xxvii. 315.

permit the *Isabel* to refit at Woolwich, xxiii. 136.

- Surveys reviewed. See Coast Surveys.

Adnanian and Kahtanian divisions of the Arabs, xxiv. 191 seqq.

Ado, a reported large town in Yoruba, xxx. 217.

Adoncholon Mountains between Argun

AFRICA.

and Onon Rivers, Russo-Mongol frontier, xxviii. 413, 415.

Adrianople, reduced population of, xxiv. 46.

-, Treaty of, *ib*. 63.

Address (Udhruh q. v.), Northern Arabia, xxiv. 128.

ADVANCE and Rescue, ships, are beset and drift imbedded for fifteen months, xxvi. 33, 34.

Adwan or Hawazim, a formerly powerful tribe in Arabia, xxiv. 158.

Aemgun, Amgun, Omogun, or Kingan River, Lower Amur, xxviii. 388, seqq.

AENG, Aracan, xxiv. 86.

- Pass, ditto, xxvii. 56—described, 74.

Ære of Antonine's Itinerary in Syria, wrongly identified by De Sauley, xxvi. 45.

Æsculapius, statue of, found at Milo, xxii. 211.

ÆTOLIA, XXVII. 1 seqq.; operations of Brennus against, ib. 12 seqq.

——. Epictetus—modern Venetico, ib. 6, 7.

Affel, Arab tribe of Euphrates Marshes, xxvi. 137.

'Afineh, in Bashan, xxviii. 246.

Afka, in Lebanon, xxiv. 35.

Africa, Progress of Geography and Exploration in, xxi. p. lxxxiii.; vol. xxii. p. cxvii.; vol. xxiii. p. cix.; vol. xxiv. p. xcv.; vol. xxv. p. cxvi.; vol. xxvi. p. ccix.; vol. xxvii. p. clxi.; vol. xxviii. p. cc.; vol. xxix. p. clxxix.; vol. xxx. p. clviii.

-, interior formation of; Sir R. Murchison's observations on, xxii. p. cxxii.; as regards South Central Africa (Livingstone's), xxvii. 352 seqq., 365—former theories as to, xxix. 21, 22; general true features

of, 24.

---, importance of geological observations in inner, xxii. p. cxxiv.

--, Explorations into the Interior of, by Dr. Livingstone, xxiv. 291; xxv. 218; xxvi. 78; xxvii. 349; See also, xxi. 18; xxii. 163.

-, Central, Account of Two Expeditions in, by the Furanys. Communicated by Dr. Barth, xxiii. 120.

-, Notice of a Caravan Journey from the East to the West coast of, communicated by Vice-Consul Brand, with remarks by W. D. Cooley, xxiv. 266. See also 299.

AFRICA.

during a Hunting Tour in South. By Henry S. Gassiott, xxii. 136.

Africa, Recent expedition into South-WESTERN. By Francis Galton,

F.R.G.S., xxii. 140.

--, Extracts from the Letters of an Hungarian Traveller in CENTRAL, (Ladislaus Magyar or Amerigo). Communicated by Dr. H. Ronay with Remarks by W. D. Cooley, xxiv. 271. --, Explorations in South, with Route from Walfisch Bay to Lake Ngami, and Ascent of the Tioge River. By Charles J. Andersson, xxv. 79.

-, Notes on Geography of Cen-TRAL. By James Macqueen, xxvi. 109. —, The Lake Regions of Central EQUATORIAL, with notices of the Lunar Mountains and the Sources of the White Nile, being the results of an Expedition under the patronage of Her Majesty's Government, and the Royal Geographical Society. By Capt. R. F. Burton, Her Majesty's Indian Army, xxix. (the whole).

-, A General Historical Description of the State of Human Society in Northern Central. By Dr. H.

BARTH, XXX. 112.

-, Journeys of Silva Porto with the Arabs from Benguela to Ibo and Mozambique through. By James MACQUEEN, XXX. 136. For papers see List at beginning. For other

-, attempts to traverse the eontinent of, in latitude of Loanda, previous to Livingstone's. See xxvii.

373.

African race, Perpetuity of, xxvii. 372.

of Messrs. Richardson, Barth and Overweg, progress of the, xxi. 130 objects; proceedings at Tripoli, 131; start, 132—reach Murzuk and Ghat, 133—reach Tarajit in Kingdom of Air or Asben; attacked by Tawariks, 134—Barth's letter from Tin-tellust in Air; his journey to Agadez, 137 presented to the Sultan, 138—investiture of Sultan, 139 — account of Agadez, 142—the Emghedezi language, 144—commerce; manufactures, 147—prices, 148—government; schools and morals, 151—quarters in the city; buildings, 152—water, 153— Vocabularies and Routes (q. v.), 154—

AFRICAN.

account of the Tawarik, 166—Vocabularies, 169—letter from Sultan of Agadez, 190—Barth's letter to Dr. Beke from Kano, 191—Routes, 191-208—Barth's second letter to Petermann, 208—Routes, 208-219—Vocabularies, 212-214—the travellers leave Air or Ahir, 219—separate, Richardson towards Kuka, Barth towards Kano; death of Richardson; Barth reaches Lake Tsad; joined by Overweg at Kuka, 220—Barth reaches Yola; returns to Kuka; Overweg launches boat on Lake Tsad; their plans, 221.

African Mission (Central), xxi. p. lxxxv.; vol. xxv. pp. xev., exxi; vol. xxvi. p. ecix.; vol. xxvii. p. elxi.

seqq.; vol. xxviii. p. ccii.

-, xxiv. p. 276. 1. Letter from Dr. Vogel to Mr. Petermann—region south of Tripoli; Roman ruins; Taghona mountains; Wadi Sofejin, 277—Bonjèm; fleas and flies; Šokna, 278—Black Mountains; Murzuk, 279—Trona Lakes; sand-hills; Roman remains; Fezzan worms, 280—paste made from them.

2. Letters from Sappers and Miners. —Hospitality at Sokna, 280—Jibal Aswad or Black Mountains, 281 frightful heat; Murzuk; Gatrone; slave caravan; Tegery; Great Desert; bones; great variations of tem-

perature, 282.

3. Geographical positions in North Africa determined by Vogel, 282.

4. Extract of Letter from Barth to Dr. Beke describing the Mayo (or Niger), the port of Timbuktu, and his entrance to that city; with Routes, $283 \ seqq.$

-, xxv. 237.

Letter of Dr. Vogel from Kuka.— Expedition to Musgo; Shary River; cruelty and mortality, 238—proposed journey to the Chadda; collections; invitation to Wadai, 239—good service of the sappers Church and Maguire, and of Mr. H. Warrington.

Letter of Vogel to Consul Gagliuffi at Murzuk, 240—Revolution at Kuka; failure in attempt to join Niger ex-

pedition.

Letter to Col. Herman, Consul at Tripoli. No tropical rains at Kuka,

241—poverty of flora.

Letter to Vice-Consul Dickson at Ghadamis, 241—geographical positions between Murzuk and Kuka, 242

AFRICAN.

—also in Mandra, Bornu and Sudan, 243 — Meteorological Observations between Murzuk and Kuka, 244reports proposed start for Adamawa, 245.

AFRICAN discovery from Mombas, Remarks suggestive of, by Col. Sykes, xxiii. 116.

AFTERNOON march in East Africa. See $Tirikeza_*$

AGA (Aja) and Selma, granite ridges of the Tay or Shammar Mountains in Central Arabia, xxiv. 170 seqq. described, 175, 193, 198, 205.

Agadez, Sahra, xxi. 134 seqq.—Sultan of, 139, 149, 190. See Abd-el-Kader -account of, 142 seqq.-language of, 144—vocabulary, 169, 188, xxx. 120, 126.

Agail Arabs, Babylonia, xxvi. 149. Agam, Balti, Tibet, xxiii. 57.

Agateca River, subterranean outlet of Lake Yojoa, Honduras, xxx. 62.

Agberi, Kwora River, xxv. 110.

AGBOM, town in Yoruba, xxx. 214. Agboro, Nupé, Niger, xxx. 227.

Agdagh, cone of, Armenia, xxi. 4.

Aged, Murder of the, among Vancouver Indians, xxvii. 304.

Agenhuis, Little Bushmanland, xxviii. 169.

Aghda, between Ispahan and Yezd, xxv. 17.
Agidabo, Yoruba, xxx. 215.

Aginis or Beth-Yakina, ancient emporium on Lower Euphrates, xxvii. 185,

Constantinos, Laconia, Agios XVII. 35.

— Janis, *ib*.

—— Seranda, ib. 43.

—— Theologos, *ib*. 53.

AGLA or Acla, settlement at, in Darien, in 1514, xxiii. 179.

Aglasenica river and valley, Darien, examined for canal line, xxvii. 192, 199, 200.

AGMANGAN, cone of, Armenia, xxi. 4. AGRICULTURE of Himalya and Tibet, xxi. 78.

——— in Chusan, xxiii. 260. ——— in Central Arabia, xxiv. 198.

on Zambesi, xxvii. 380. in East Africa, xxix,

Agrinium, Ætolia, xxvii. 7.

AGUA Caliente River, San Salvador, xxviii, 352,

AJI.

Agua Caliente village with hotsprings, North-West Mexico, xxx. 20.

- Volcano, Guatemala, xxviii. 360. - del Clerigo, coast of Atacama, xxv. 159.

Aguano, Ecuador, xxviii. 342.

Aguas Blancas, Atacama, xxv. 161.

Ague and its remedies, in South Peru, xxi. 111.

Aguila Volcano, San Salvador, xxviii. 357.

Agulhas current, xxiii. 218.

AH-DOUNG-DYN, Aracan, xxiv. 114.

'Ahiri, in Lejah of Bashan, xxviii. 260. AHMEDABAD, Firuzabad, South Persia, xxvii. 178.

Ahram, Fars, xxvii. 119.

AHWAZ, Khuzistan, ruins, stone dam on the Karun, &c., at, xxvii. 110, 128.

Al'Aras or Roodkop, Orange River, xxviii. 177.

Aidos, Rumilia, xxiv. 48, 49.

AIGUNT or Sahalin Ula Hotun, Chinese town on the Amur, xxviii. 382, 394.

'AIHA and ancient Temple, Antilibanus, xxiv. 27, 28.

AIMARA language, of Peru, xxvi. 219. AIN Bittir, near Jerusalem, xxiv. 17.

—— el-haramich, Palestine, xxvi. 56.

— el-Koom, Syrian Desert, xxx. 209.

— el-Tain, Galilee, xxiv. 23. —— es-Ashka, Dead Sea, xxvi. 62.

— Huniyeh or St. Philip's Fount, near Jerusalem, xxiv. 17.

— Karim Convent, ditto, ib. — Kunyeh, Syria, xxiv. 26.

— y-Borek, Palestine, xxvi. 56.

— Yalo, Valley of Roses, near Jeru-

salem, xxiv. 17. Amo Tribe, Sahalin Island, Amur Coast, xxviii. 390.

Aintas River, Orange River, xxviii. 176.

Air, Ahir, Hahir, Kahir, or Asben, kingdom of the Kelowi in Sahra, xxi. 133 — hostility encountered by Richardson, 134—character of country, 161—xxx. 113.

AIRAC (Irak), xxx. 203.

AJA. See Aga.

Ajalon (Yalo), xxiv. 11.

AJAN or Azania, East Africa, xxix. 49. AJANUS, Scala on Black Sea, near Balkan, xxiv. 52.

Ajele, a functionary in Yoruba, xxx.

212 seqq.
AJELTUN, Lebanon, xxiv. 35.

Ajı, capsicum of South Peru, xxi. 111.

AJIS.

Ajis, priests or conjurors in Borneo, xxiii. 80, 83.

AJRUD (spelt Agrood), Suez Desert, xxiv. 115.

'Akaba, Arabia, and Gulf of; in relation to Wadi Araba, xxiii. 166 seqq. xxiv. 177, 119, 120, 129, 213—dimensions of Gulf, 227, 237—xxv. 277, 280, 282.

Akabli in Oasis of Tawat, North Central Africa, xxx. 113.

Akela, Aukar, or Eriggi, isolated sandhills in North Central Africa, xxx. 114.

AKFA (Apheca) and Temple of Venus, Lebanon, xxiv. 35.

AKHDAR, North-West Arabia, xxiv. 197. AKHLI, Rumilia, xxiv. 49, 53.

Akhord, Nain, Persia, xxv. 13.

Akhoung Tribe, Aracan, xxiv. 102, 105.

AKIBIDI, Yoruba, xxx. 215.

Akisheff and Goloff employed on Aral Survey, xxiii. 94.

'AKKA (Acre), xxiv. 5—road from to Damascus, 6-9.

AKKAR, Lebanon, xxiv. 34.

Akouktoung, rocky promontory on Irawadi River, and road thence into Aracan, xxvii. 75.

A'KPA, island giving name to a tribe on Chadda River, xxv. 115.

Акроко, on Chadda River, xxv. 113. Акрото District, Chadda River, ib.

Akra of Josephus, xxiv. 14.

'AKRABEH (*Acrabatene*), Palestine, xxiv. 18.

Akrathes Islands, near Milo, Greek Archipelago, xxii. 201.

AKSHINSK, on Onon River, Russo-Mongol frontier, xxviii. 377, 412.

AKUR, village near Jerusalem, xxiv. 17.

Akura, Lebanon, xxiv. 34. Akyab, Aracan, xxiv. 86.

Alabaster, Oriental, quarries of, at Potisat in Cambodia, xxx. 180.

AL'ABDE division of Shammar Tribe, Central Arabia, xxiv. 186. For Arabic Al, see also El.

Alagez Mountain, Armenia, xxi. 4. Alahsa or Alhasa, Castle, North Arabia, xxiv. 135.

—— province of Arabia towards Persian Gulf, *ib.*, 167, 180.

Alaknanda River, chief feeder of Ganges, xxi. 64.

AL Aleim and Al Turky, two conical peaks in desert of North Central Arabia, xxiv. 160.

Alamos, rich town of Sonora, xxx. 44.

AL GAWF.

'Alawin Tribe of Bedawins, xxiv. 117. Albany, Port, North Australia, xxviii. 7. Albazin, Fort, on the Amur, taken by Chinese in 1683, xxviii. 376 seqq., 445.

Albaziha River, near Albazin. ib. 379.

ALBERNI CANAL, a deep firth in Vancouver Island, xxvii. 269, 277, 286.

Albert, Prince, communicates Col. Lloyd's paper on Copiapo, xxiii. 196.

——— River, Gulf of Carpentaria, reached by Gregory, xxviii. 100.

Albertville, Upper Savoy, xxv. 184, 186.

Albinos; numerous among the Wazarama, East Africa, xxix. 85—elsewhere, 315—in South Africa put to death, *ib*.

Albureida, chief town of Al Kasim Central Arabia, xxiv. 204.

ALBURKA Islands, Kwora River, xxv. 110.

Albuseita, Albasita, North Arabia, xxiv. 136, 137.

ALCAPAROSA, coast of South Peru, xxi. 107.

ALDAHNA. See Dahna.

Aldan River, East Siberia, xxviii. 405, 406.

ALDANA mine, Mexico, xxx. 51.

Aldrich, Col., and Lieut. Symonds, their map of Jerusalem charged with error, xxiv. 13.

Alegyo, on one of the passes from Irawadi to Aracan, xxvii. 75.

ALEPPO, XXX. 210.

ALEUTIAN Islands, M'Clure's successful run through, xxiv. 240.

ALEXANDER of Macedon; his march to the Danube, xxiv. 56, 81, 82—tracks of his campaigns, xxvii. 113.

to Walfisch Bay referred to, xxii. 142, 156.

ALEXANDRIA, Notice of a METEORO-LOGICAL Journal kept at. By Hugh

Thurburn, xxii. 128.

Alexandrina, Lake, on the Murray River, its navigable capacities, xxv. 179.

ALEXANDROPOL in Georgia, climate of, resembling that of Canada, xxi. 8.

ALGAR River, Amurland, xxviii. 430.
ALGAROBO trees in South Peru, xxi. 111.
AL GAWF. See Al Jauf.

ALGHAZALE.

Alghazale, Shammar Village, Arabia, xxiv. 204.

Alhagara, tribe of Sahra, xxi. 134, 135, 168.

Alhamatiye Valley, North-East Arabia, xxiv. 170.

ALHULEIFE Village of Central Arabia, xxiv. 207.

Alhumeima, North-West Arabia, xxiv. 134.

'Aliabad, Kerman, Persia, xxv. 61.

Aliki, Kimolo, Greek Archipelago, xxii. 204.

Alikapu, Karasu Lakes, Dobrudsha, xxvi. 206.

AL JAFAR (spelt Al Gafar) division of Shammar Tribe, Central Arabia, xxiv. 186.

AL JAUF (spelt Al Gawf) North Central Arabia, xxiv. 115, 126, 127, 135
—meaning of name, 138—described, 139—quarters of town, 141—tradiditions, 144, 167—former name, 145
—character of people, 146—history; hospitality, 147 — music; cattle; olives said formerly to have grown at, 148—excellence and variety of dates, 149—exactions of Bedawi Tribes; manufactures, 150—trade by barter; considered the centre of the world; routes to Damascus and Palestine; to Al Riyad, 151—correction of Ritter regarding; history in time of early Islam, 152, 173, 184, 192.

AL KASIM, province of Central Arabia,

Al Kasım, province of Central Arabia, xxiv. 142, 148 seqq. — gets grain from Irak, 179, 192, 197, 201.

AL KEREK in Syria, seven days from Al Jauf, xxiv. 143.

Al Kuseir, Castle in Al Jauf, xxiv. 143. Allan, Major Grant, his geographical collections in Burma, xxvii. 56, 58.

Alldridge, Lieut., coast surveys by, xxiv. p. lxxxix.

ALLEN, Capt. W., R.N., on the Dead Sea, and possibility of uniting the Red Sea with the Mediterranean referred to, xxiii. p. cv.

RUAD, Northern Syria, xxiii. 154—advantages of Tyre and Aradus or Ruad; position of Ruad; ports; ancient moles, 155—great bed of concrete; gigantic remains; culvert for sluicing; modern town; Pococke and Volney, 156—population; water; roadstead.

BOUR of SELEUCIA in Picria, xxiii, 157
—modern Syria's want of harbours;

ALMARID.

anciently provided by art; description of Seleucia; outer port; Great Basin, 158 — sand accumulations; stupendous culvert, 158, 160—inscriptions; state of the work recapitulated, 161—estimate for restoration; proposal to convert the basin into a wet-dock with locks; advantages of the restoration, 162, 163.

Allen, Capt. W., R.N., Attempt to account for numerous appearances of Violent Drainage on the sides of the

Dead Sea, xxiii. 163.

Depression of Dead Sea; features indicating successive falls in surface; hypothesis that an arm of the Indian Ocean once reached to Antilibanus, 164—detail of supposed phenomena of desiccation, 165-166.

shed of the Wadi El Araba, xxiii. 166.

Descending slope of the valley towards Dead Sea; watershed not determined; notices conflicting; Burckhardt's Notice of the Wadi, 167—Irby and Mangles; Count de Berton's opinion and reasons; possible error on his part; Schubert, 168—Dr. Robinson, 169—evidence from the Salt Marshes. The matter still undetermined, and a fit problem for British solution, 170-171.

The above paper referred to, xxiv.

236.

Allen, Mount, Chadda River, xxv. 113. Alligator Island, North Australia, xxviii. 24.

Alligators in Aracan, eat and are eaten, xxiv. 89.

ALLUVIAL sediment in Yangtsekiang, rapid deposition of, teaches caution in judging of time occupied in such formations, xxix. p. elxxiii.

formations, xxix. p. clxxiii.
Alluvium of Tibet described, xxiii. 17
—primary and secondary deposits of,
18—composition, 19—and fossil
mammals; of marine origin, 20.

Almacen, on the Yuna, San Domingo, xxiii. 272.

Almaghara, near Ma'an, North Arabia, and Syrian character of the locality, xxiv. 125.

Almagro, the first discoverer of Southern Peru and Atacama, xxi. 102.

Almarid, Castle in Aljauf, North Arabia, xxiv. 139—residence of ancient chiefs who were Christians, 145, 153.

ALMOND.

Almond, Persian, xxix. 36.

ALNAKHIL, eastle in Arabian Desert, north of Sinai, xxiv. 116.

Alompra, founder of present Burmese Dynasty, xxvii. 62.

ALPACAS, Llamas, Guanacos, &c., in Tarapaca, xxi. 118.

Alphabet never invented in Borneo, xxiii. 77.

Alpine enterprise, xxix. p. clxviii.

Alps, Notes on Hannibal's Passage across the. By Prof. Paul Chaix of Geneva, xxv. 182.

By Schlagint--, Surveys of the. weits and others, xxiii. p. xevi. seqq. AL RAWDA in Aja and Selma, Central Arabia, xxiv. 202, 204.

L Ryad, Modern Wahabi capital, xxiv. 150, 151, 173, 180, 184, 186. Al Ryad, Modern

AL SHAKIK, wells near Al Jauf, North Arabia, xxiv. 149, 159, 168.

AL SHAMIYE ("The Syrian"), near Ma'an, North Arabia, xxiv. 125.

AL SHEFA Mountain above Wejh, West Arabia, xxiv. 129.

AL TAFILE, village of North Arabia, xxiv. 129.

TAHAMA Mountains, West Arabia, *ib.* and 153.

ALTANGAN, wooded table-land between the Argun and Onon, Russo-Mongol frontier, xxviii. 414.

ALTATA, port of North-Western Mexico, xxx. 6.

ALTITUDE and Azimuth instrument reeommended by Col. Everest, xxx. 316.

ALTITUDES, measured, adjoining valley of Beaufort, Upper Savoy, xxv. 188. in Southern Otago, New

Zealand, xxviii. 331.

AL 'UDHEIRY Mountains, North Arabia, xxiv. 138.

AL UKEIDER or Alkeider, chief of Al Jauf in time of Mahomed, xxiv. 145 —his dealings with Mahomed, and death, 153.

Alum of Milo (Melos), ancient and modern, xxii. 218.

Alunda Tribe, Central Africa, xxiv. 274.

Alviso, California, xxx. 2.

ALWYN Fontein, Bushmanland, xxviii. 167.

Alyzia, Ætolia, xxvii. 5.

AMALEK-LIK, legends in Arabia of race of, xxiv. 176, 190, 203—their tombs near Rama of Benjamin, ib., 17.

Amam Peak, Orange River, xxviii. 174.

AMAMA, Orange River, ib. 173.

AMERIGO.

AMARA Christians, Reports of, in Africa near Equator, xxx. 136.

Amasoans, Little Bushmanland, xxviii. 169.

Amatitlan Lake, Guatemala, xxx. 58. Amazar River, Amur Land, xxviii. 426. Amazon or -zons River; colour of, xxiii. 212; xxiv. 259; xxv. 151—valley of, xxv. p. cxxix; sources and tributaries, xxvi. 213 seqq.; xxx. 70, 71—navigation, 74—as a line of communication with the Andes countries. See Lloyd and Markham.

- Department of Peru, xxvi. 219, 221.

Amazonas, Province of Brazil, xxiii. 214.

Amba Sakalian, Manchur village, Amur Land, xxviii. 381, 444.

Ambaca, Angola, xxv. 230; xxx. 153.

Ambanganga River, and great stone dam across it at Ellehara, Ceylon, xxvii. 334, 335 seqq.

Ambato, town in Equador, xxx. 66.

Ambere, Ceylon, xxvii. 335. Amber-mines of Hookhong in Burma, xxvii. 56-58.

Amberbaki, New Guinea, xxx. 174.

Amboellas, South Central Africa, xxx. 150.

AMERICA, South, Observations relative to the Geographical Position of the West Coast of. By Carlos Moesta, xxviii. 333.

-, Progress of Geography and Exploration in, xxi. p. lxxxviii; vol. xxii. p. cv.; vol. xxiii. p. exiv.; vol. xxiv. p. xeviii.; vol. xxv. pp. cxxv., exxix.; vol. xxvi. p. cexx.; vol. xxvii. p. clxxx.; vol. xxviii. p. clxxvi.; vol. xxix. p. cxev.; vol. xxx. p. clii.

-, United States, Coast Surveys of, xxiii. p. cxvi.; vol. xxv. p. exxvii.; vol. xxvii. p. clxxxii.; vol. xxix. p. cl. See also United States.

-, Central, projects for communieation aeross, xxi. 96; xxiii. 171, 191; xxiv. 249; xxvi. 174; xxvii, 191 — Squier's Researches in, xxvi. p. ccxxi; exploration in, xxvii. p. clxxxv.; Geographical Notices of, xxviii. p. clxxix.; vol. xxix. p. ceviii. See also British North America, South America, and List of Papers.

171.

Amerigo, Ladislaus, or Magyar, Hungarian traveller in South Central

'AMIBIS.

Africa. See under *Cooley*, xxiv. 271, also xxvi. 111, 123, 124, 125, 127, 128 *seqq*.; xxviii. p. clxviii.; xxix. p. xxv.

'Amibis, Bushmanland, xxviii. 167.

'Amkah (Beth Emek of Asher), xxiv. 8. Ammajura, in or near Darfur, xxiii. 120.

Amounta Channel, Aleutian Islands. successfully taken by McClure, xxv, 195.

Ams, Little Bushmanland, xxviii. 173.

Aми Darya (Oxus), xxiii. 98.

AMUR River and Adjacent Districts, Notes on. By Messrs. Peschuroff, Permikin, Shenurin, Vasilieff, Radde, Usoltzoff, Pargachefski, &c. Translated from the Russian by Mr. MITCHEL, under the superintendence of Captain R. Collinson, R.N., xxviii. 376—extent of drainage; boundary between Chinese and Russian Empires; Albazin fortified post; treaty of 1728; the Shilka River, 377-Nerchinsk; descent of the River Amur from Ust-Strelka, 378—Gorbiza; Albazin, 379—Maneger Tribe; islands; Malaga Nadedja, 380—hill of Zagayan, alleged to smoke; Bulkun River; Kamara, 381 — Amba Sahalian; Zega River; Sahalian Ula Hotun or Aigunt, 382 — types of flora on the river, 383—the Hingan (Kinggran) Mayuntaing, the Business (Kinggan) Mountains; the Buriya River; Cape Sverbeef, 384—Songari River; and its valley, 385—River Horolog, 386—Usuri River; Cape St. Cyril; the Gold Tribe, 387—great abundance of fish; the Mangunes; Mariinsk, 388—railway to Decastries Bay; Pul; the Gilyaks, 389—curious monuments; Nikolaefsk; winter station of Amur fleet, 390—island of Sahalian; posts; supplies of necessaries, 391.

Ethnology. — Manchurs, Nekans, and Daurs, 392—Golds, Mangunes, Samagirs, and Gilyaks, 395 — Nomades of Upper Amur, as Orochens, Manegers, Gantsi, and Kapliars, 397.

Lieut. Shenurin's Journey from

Nikolaefsk to Yakutsk, 398.

The Amur Voevodship (Chinese military Government apparently),

according to Vasilieff, 407.

The Dauro-Mongolian Frontier of the Trans-Baikal Region. By M. G. Radde, 411—steppes; position, 412—general character of surface; agricultural capabilities, 417.

ANDERSON.

Extracts from Radde's communication on the Hingan Range, 418—the Amur at that point; vegetation; bears, 420 — vegetation continued, 421—cork-tree, 422—insects; fishes, 423 — walnuts; mammalia; tigers, 424—climate.

Journey to source of Gilui River, and to the Zega, during the summer of 1856. By Ensign Usolzoff, 425.

Winter's Journey up the Amur, from Nikolaefsk to Ust-Strelka. By Pargachefski, 434.

Amur River, xxvi. p. cxcix.; surveys of,

xxx. p. clxxx.

Amwas (*Emmaus*), xxiv. 11. Amyclæ near Sparta, xxvii. 11.

Anador Keni, Dobrudsha, xxvi. 205. Anadyr, Gulf of, Behring Strait, xxv.

196.

Anakım (Enakim), xxiv. 190.

Anamese; have seized much of Cambodia, xxvi. 73—said to be of the Laos stock, *ib*.

Anamungan River, Amurland, xxviii.

426.

Anarajapura, tank of, Ceylon, xxvii. 332.

Anastomosis of rivers, alleged, in Burma, xxvii. 63.

Ancas, Department of Peru, xxvi. 219, 221.

Anchorage of *Herald* and *Torch* in middle of Atlantic, xxiii. p. exxxiv.

Ancient Geography, papers on, noticed xxiii. p. ci.

xxiii. p. ci.

New Zealand, hypothetic, xxxiii. p. exxxv.

Port in Crete discovered, xxiv. 239.

ANCUMA chain of the Andes, Peru, xxvi. 212.

Andaku River, Kilimanjaro, xxx. 130. Andaman Islands, xxvii. 65.

Anderson, Chief Factor James, traces of Franklin's Expedition found by,

xxvi. pp. ccvi. 32.

from, to Sir George Simpson, Governor-in-Chief of Rupert's Land, xxvi. 18.

tracts from Arctic Journal of, xxvii. 321—Lake Franklin; Esquimaux; various articles found with them; owners said to have died of hunger;

ANDERSON.

Victoria Headland, 322 — Montreal Island; relics of Erebus's boat found, 323—search for graves, &c., unsuccessful; further explorations without result, 324-326—return; a few more relics with Esquimaux, 327—Lake Pelly.

Anderson, R., Surgeon R.N., Obit.

Notice, xxvii. p. cxiii.

Bay, Vietoria Land, xxii. 85, 94.

Andersson, Charles J., African traveller, xxii. 140—vol. xxiv. p. xcvii.; award of a premium to, vol. xxv. pp. viii. lxxxiii. xciv. cxvii.; vol. xxvi. p. ecxv.; vol. xxviii. p. eciv.; vol. xxx. p. clxv.

Explorations in South Africa, with route from Walfisch Bay to Lake Ngam, and ascent of the Tioge River, xxv. 79difficulties of expedition; overland route from Walfisch Bay to the Cape, 80—return by sea, 81—Otchombinde River; Ganzé, 82—Moyle's misfortunes; Kobis, 83—Bushman gratitude; encounter with rhinoceros; Bechuanas, 84—Hakis Thorns; Lake Ngami, 85—Letcholetebe the chief; Tsetsé fly and fever, 86—voyage on lake; ascent of Tioge, 87—hippopotamuses, and other animal life, 88-Omoroanga, Vavarra River, 89—the Bayeye; Libebe, 90—tribes noticed. Remarks on Lake Ngami and tribes bordering it, 91-93 — Baloana Bechuanas, 93 — game; the Bayeye; character, habits, &c.; cultivation, 94—moshoma tree, 95—Bayeye, Damara, and Chylimanse comparative vocabulary, 96—Kalahari Desert, 101 return through Great Namaqua Land to Orange River, 102—notices of Namaqua Land; the people, 103 their notions and customs, 104 table of observations, 106.

Andes, xxi. 100, 103—xxvi. 211.

— Journey across, between Cochabamba and Chimore, with remarks on proposed communication between Bolivia and the Atlantic, viâ the Amazon. By J. A. LLOYD, Chargé d'Affaires in Bolivia, xxiv. 259.

Andoma, a large warlike kingdom to the South-West of Darfur, xxiii. 121

-xxx. 123.

Andries Fontein, Orange River, xxviii.

Androna and Seriane, supposed remains of, near Aleppo, xxx. 209.

ANTILOPES.

Andriushkino, Amur Land, xxviii.

ANDUJERD, castle on lofty hill, and village, Kerman Persia, xxv. 36.

Aneiza, Eneize. See Aneze.

Anemometer, marine, xxi. p. xci.

Aneroid, papers on, referred to, xxi. p.

-, Col. Yorke on the, ib. 35. -, Dr. Bust, on the, for Indian Surveying, 36—described, 45—compared with barometer, 48.

—, Prof. Patton on the, ib. 51. —, Kennedy on the capacities of the, xxii. 229—observations of, on a voyage to Algoa Bay, xxv. 258.

Aneza, Aneizeh, 'Anazeh, Eneze, Eneizé, a great Arab tribe, xxiv. 122, 126, 132, 137, 141, 148, 149, 163, 202; xxvi. 131, 149; xxviii. 230 divisions and strength of the tribe, 232, 244; xxx. 208.

Angangeo, Mexico, xxx. 54.

Angeor, Ongkor, site of ancient ruins in Cambodia, xxx. 193.

Angelo Castro, lake of, in Ætolia, xxvii. 1.

Angiama, on the Lower Kwora River, where Lander was mortally wounded, xxv. 110...

Angola; bishop's attention to Livingstone, xxv. 228-Memo. on the province of, 229—ideal section of, 232.

Angosturas, Rajas, or Narrows; remarkable fissures in South Peru, xxi. 116.

Angoulasse, site of massive old Bund, Ceylon, xxvii. 330.

Anglo-Mexican Mining Company, and its operations, xxx. 50.

Angra Pequina, Namaqua Land, xxii. 137.

Animal life in Arctic regions. Petermann, xxii. 119; xxiii. 127; xxvi. 25.

Animals, of Borneo, xxiii. 75 — reported new, on Upper Zambesi, xxiv. 300—of East Africa, xxix. 75, 143. 175, 228, 262. See Zoology.

'Anjar or Medjel Anjar, and its Temple, supposed Chalcis, Syria, xxiv. 29-32.

Annabar, or Nalbar, stream lost in desert near Kum, Persia, xxv. 9. Anoatok in Sir T. Smith's Sound,

North Greenland, xxvi. 10, 13, 14.

Anoo Tribe of Koomoois, in Aracan, xxiv. 106, 112.

Antilopes, innumerable, and fearless on islands in the Aral Sea, xxiii. 94 —New, see Livingstone, xxvii. 371

ANTICIPATIONS.

—four-horned, and others of East Africa, xxix. 110.

Anticipations of Australian gold, by Sir R. Murchison, and others, xxii. p. lxxxii.

Anticosti Island, survey of, Gulf of St. Lawrence, xxviii. p. clxxviii.

Antigonus at battle of Sellasia, xxvii. 36.

Antilibanus, xxiii. 164; xxiv. 27-29—its erroneous position in maps corrected, xxvi. 43, 53, 54—its height, 44, 46.

Anti Milo, Greek Island, see Leycester, xxii. 201—described, 206.

Antimony, discovered at Sarawak, through Mr. Crawfurd, xxiii. 74—ore in Fiji, xxvii. 255—in Cambodia, xxx. 180.

Antiochian Mountains, valley of Atrato River, South America, xxvi. 180.

Antipatris (Kefr-Saba), Palestine, xxiv. 10.

Ants, large biting, in Bolivia, xxiv. 261 — details regarding, in East Africa, xxix. 72.

Anyashi, Chadda River, xxv. 115.

'Anz, ancient city in Bashan, xxviii. 254.

APACHE Indians and their depredations, North Mexico, xxx. 28.

Apaneca Lake, San Salvador, xxviii. 353.

Volcano, San Salvador, ib. 357.

APARIMA River, and plains, Otago, xxviii. 306, 312, 316.

Apasteque Lake, San Salvador, xxviii. 352.

APIE River, tribe of Limpopo, xxiv. 289.

Apollon Hill in Milo, above ancient *Melos*, xxii. 210.

Apopa, inclosed plain, San Salvador, xxviii. 358.

Appadan (Abadan), on Lower Euphrates, xxvii. 188.

APPHANA. See Appadan.

Apurimac River, feeder of Ucalia and eventually of Amazon, xxvi. 216.

ARAB communication with India and Egypt, modern, xxiv. 188.

—— shipping, *ib*. 210.

--- travellers across Africa, xxiv. 299; xxx. 135 seqq.

—— tribes. See Beni, Benoo, Wallin, Graham.

Arabs, nomade, in Jibal of Tripoli, xxii. 134.

ARCHIPELAGO.

Arabs, bargaining with, xxviii. 247.
————, half-caste, of Zanzibar coast, xxix. 52.

Araba, xxiii. 166. See Wadi and Allen.

River, at Jericho, xxvi. 70. See also Arraba.

Arabat and spit of, Sea of Azov, xxvii. 134, 135—described, 139, 140, 143, 147, 148—bay of, *ib*. 141, 144, 145.

Arabia. See Wallin, xxiv. 115 and xxv. 260—and Burton, xxiv. 208; xxv. 121.

to, xxii. p. exii; xxiii. p. evi.; xxiv. p. xciv.

Burton), xxiv. 208-9. See also ib. 191 seqq.

191 seqq.
Aracan, Capt. Tickell's Journal up the Koladyn River in, xxiv. 86.

wild tribe of, 65—population of, 86.
—, old city of, xxiv. 99.

Araganoup Peak, Orange River, xxviii.

Arakhova, Laconia, xxvii. 36, 41, 43, 50.

ARAL, Sea of, islands discovered in, xxi. p. lxxv; survey of, vol. xxii. p. xcv.; and Caspian, submerged area of, xxiii. p. lxxxvii; its name means Sea of islands, vol. xxiii. p. 98.

Aralo-Caspian of a former era, xxvii. p. cxxxvii.

Aralsk, or Raim, Sea of Aral, xxiii. 94. Arambala, San Salvador, xxviii. 350. Arankosi River, Nepal, xxiii. 9.

Ararat, Mount, xxi. 4—climate, 8—ascended by Col. Khodzko, xxi. p. lxxix; exceeded in height by Demawend, vol. xxix. p. clxx.

Arasa River, or Marcapata, supposed tributary of the Purus, East of Andes, xxv. 157.

Aratus, xxvii. 2.

ARAWAN, North of Timbuktu, xxx. 120. ARAXES River, xxi. 4, 7.

Arboleta, El Fuerte, North-West Mexico, xxx. 17.

Arc measurement, Russian, xxiii. p. lxxxv; vol. xxviii. p. clix.

Archery, Esquimaux, xxv. 201. Archidona, Ecuador, xxviii. 339.

Archipelago, Indian, Remarks on, xxviii. p. excii; coast surveys, vol.

ARCHIPELAGO.

xxix. p. exlvii; progress of knowledge respecting, vol. xxix. p. clxxvii.; vol. xxx. p. elxxvi. See Crawfurd, Wallace, McGillivray, Müller.

Archipelago, Greek, surveys in, xxx. p. exxxii. See *Leycester*, xxii. 201. Archipelagoes of Pacific, effect of, on

currents, xxiii. 226.

Arctic exploration and information regarding Franklin's party. By Dr. J. Rae, xxv. 246.

- of Austin, Ommanney, Penny, and others, xxii. p.

---- reviewed, xxiii. p. lxxv.; vol. xxiv. p. lxxxvii; vol. xxv. pp. xeiv. exxii.; vol. xxviii. p. clxxiv.; vol. xxix. p. cciii.; vol. xxx. p. exlix.

-. See also Kane, Collinson, McClure, and others, as in List of Papers, and Franklin.

—— searches, final, xxvii. p. exei.

- Journal of Chief Factor J. Anderson, extracts from, xxvii. 321 —see also xxvi. 18.

Regions, Report on return of · the *Isabel* from the. By Comm.

Inglefield, xxiii. 136.

—, Notes on the distribution of animal available as food in. By Augustus Petermann, xxii. 118. light during

winter in. See Osborn, xxxviii. 371. - eurrents round Greenland. By Capt. Irminger, Danish Navy, xxvi.

—, xxiii. 219.

—— *Fox*, xxii. 119.

--- sea open. See Kane, xxvi. 9, 10—also xxviii. 280, 373.

— Coast Surveys, xxv. p. eii.

Ardebal, district, under Kum, Persia, xxv. 9—its revenue, &e., 10.

ARDEKAN town and district, between Ispahan and Yezd, its revenue, &c., xxv. 18.

Arden Island, Torres Straits, xxvi. 184.

Area of Borneo, xxiii. 70.

Areas of drainage in Tibet, xxiii. 36.

ARECHE, Upper Savoy; anthraeite mines, xxv. 187, 189—bad inn at, 191.

Arenas Islets, Bahamas, xxvi. 201noted by Columbus, ib.

Arengs or "wild" people, Araean, xxiv. 100, 102, 104, 108.

Arenhous, Little Bushmanland, xxviii. 173.

ARROWSMITH'S.

AREQUIPA, eity and department of Peru, xxi. 100, 101; xxvi. 218, 227—its voleano and its eruptions, xxi. 101.

Areya Gallas, between Abyssinia and

eoast, xxv. 217.

Arfak range, New Guinea, 9500 feet high, xxx. 17.

ARFAKIS of New Guinea, the interior and agricultural population, their characteristies, xxx. 173-174.

Argentiera, Kimolo, xxii. 205.

ARGENTINE River, Upper Savoy, xxv. 189.

Argos, xxvii. 10, 36.

Argun River, Russo-Mongol frontier, xxviii. 376—its course, 378—aspect of valley and vegetation, 414, 415.

Arguri village on Ararat, destruction of, by a natural convulsion, xxi. 8.

Argyllshire eoast surveys, xxvi. p. xciii. See Coast Surveys, Seotland.

Arica, and its desert, South Peru, xxi.

Arid, Cape, West Australia, xxii. 20.

- countries, and the eauses of their By Thomas dryness, on certain. Hopkins, xxvi. 158.

Arigas or Quiek Fontein, Little Bush-

manland, xxviii. 168.

Arka, North of Tripoli, Syria, xxiv. 34. Armal tribe of the Shammar, Central Arabia, xxiv. 144, 162, 166, 186.

Armenia, geology of Highlands of, xxi. 3—climate of, 8, 9.

Arms of East African tribes, xxix. 376 —and Burton passim.

Arnam Peak, Orange River, xxviii. 174. Arnul Koi, Bulgaria, xxiv. 70.

Arnun, Syria, over the Litany, xxiv. 4. 'Arny, village and river, near Hermon, xxvi. 45.

Aro Town, Igbo, on Kwora River, xxv. 111.

Aroango River, tributary of Zambesi, xxvi. 112, 113—body of water, 115, 127, 130, 155—North, xxx. 142, 143.

'Arrabah (Araba of Josephus), Galilee, xxiv. 7.

Arrian, on Alexander's Expedition to the Danube, xxiv. 81—on the Eulaeus, xxvii. 123, 124, 131—on Serpent Island in the Euxine, xxvii. 222.

Arro Channel and Archipelago, Vancouver Island, xxiv. 245, 246—its survey important, 247.

Arrow-root, wild and much used, in

East Africa, xxix. 403.

- River, West Australia, xxii. 69.

Arrowsmith's maps of Darien, East

ARROWSMITH'S.

frontier of Cape Colony and California, xxi. p. lxviii; of East Australia and Melbourne, vol. xxiii. p. cxxx.

Arrowsmith's Plains, Prince of Wales's Land, Arctic Regions, xxiii. 127.

ARRU Islands, New Guinea; their consumption of British goods, xxvi. 185—Mr. Wallace's researches, xxviii. p. cxciv.

Arsenic, black oxide of, found in South Peru, xxi. 121.

ARTA, Gulf of, Greece, xxvii. 13.

ARTAPHERNES, stables of, Marathon, xxvii. 34.

ARTIFICIAL sites of villages on the Leeambye, xxiv. 296.

horizon, hints on, xxiv.

ARTILLERY Lake, Arctic America, xxvi. 19.

Artiscus River (Téké), and tumuli of Darius, Rumilia, xxiv. 46, 47.

Arunda Tribe, South Central Africa, xxx. 149.

ARVE River, Hydrography of the valley of the. By Prof. Paul Chaix, xxvii. 224.

'Ary, Hauran, xxvi. 50, 51.

Asaba, town of Igbo, Kwora River, xxv. 111.

Asaszın, Manchuria, xxviii. 409.

Asben or Air, in Sahra, xxx. 113; but see Air.

Ascending atmospheric currents, xxviii. 364, and Hopkins passim.

Ashanti race, their barbarity combined with superior intelligence, xxx. 122.

Ashanumra, Sahra, xxiv. 282.

Ashkezer, in desert of Yezd, Persia, xxv. 20.

Ashrafiyeh, near Damascus, xxvi. 46.

Asilo del Rosario, North-West Mexico, xxx. 6.

Asia, geographical progress in regard to, reviewed, xxi. p. lxxvii.; vol. xxii. p. cvi; vol. xxiii. p. ci. seqq.; vol. xxiv. p. xciv; vol. xxv. p. cxi.; vol. xxvi. p. ccxv.; vol. xxvii. p. cliii. seqq.; vol. xxviii. pp. clxi. clxxxi.; vol. xxix. p. clxix.; vol. xxx. pp. clxx. clxxx.

— Minor, Tchihatcheff on, xxiii. p.

Asıyu, caravan from, to Tuwat, Sahra, xxi. 135.

'Askar, near Nablus, Palestine, xxiv. 19.

ATACAMITE.

Askar or Azkar, division of the Great Tuwarik Tribe, xxi. 168.

Aslam, tribe of Central Arabia, xxiv. 186.

Asnati, and river, Darien, surveyed by Gisborne, xxvii. 194, 199, 200, 202.

Aspenwall, island of Panama, xxx. 1.

Asphaltites, xxiii. 163. See Dead Sea.

Aspro Burnu ("White Cape"), Bulgaria, xxiv. 58.

Asses; wild, of Tibet, xxi. 79—not bitten by the Tsetsé of Africa, xxvii. 354—in East Africa, xxix. 392.

Assineboine River, British North America, xxii. 179, 180; xxx. 271.

Assouri River, British North America, and coal found on it, xxx. 273.

Assyria, survey of vestiges of ancient, by Comm. Jones, i.n., xxvi. p. cexix. Astachar, alleged ancient city in

Syrian Desert, xxx. 209.

Astronomical Observations. By Galton, in South-West Africa, xxii. 161—on the Aral by Butikoff, xxiii. 101—in Central Africa by Vogel and Barth, xxiv. 282-285—in South Central Africa by Livingstone, xxiv. 299, 301-306; xxv. 219; xxvi. 82 seqq.; xxvii. p. clxx; by Andersson in South-West Africa, xxv. 106—on the Kwora and Chadda by Baikie, xxv. 121—of positions in Polar Sea, by Collinson and his officers, xxv. 205-206—on Palliser expedition in British North America, xxx. 303 seqq.

for travellers, xxiv. 331 seqq.; also xxix. 7.

Asuri, Asodi, near Agadez, Sahra, xxi. 162.

Aswanek, Swaninki, or Serracolets, Mandingoes, xxx. 118.

Atacama, Province and desert of, xxi. 99—first visited by Almagro, 102, 112—yields nitrate of soda, 115; xxiii. 196, 197.

to Coquimbo, xxi. 126.

——, Itineraries in, xxv. 171.

———, Meteoric iron in, xxi. 127, 128; xxv. 166, 171.

Dr. R. A. Philippi to the Government of Chile, of a Journey into the Desert of, in 1853-1854, xxv. 158.

ATACAMITE, XXI. 115.

ATHABASCA.

ATHABASCA Lake, British North America, xxii. 183, 185.

------ River, ditto, *ib*. 184, 186, 190. ATHANASIAN wall near Constantinople, xxiv. 38, 39, 64.

Atish-gah, fire temple near Firuzabad,

South Persia, xxvii. 178. Atitlan Lake, Guatemala, xx. 58.

Atkinson's Views in Tartary, xxvii. p.

Atlantic, deep soundings, xxvii. p. exxiii; temperature, ib. 210.

— telegraph, xxviii. pp. cxlvii.

Atlases noticed; Penny, xxi. p. lxviii.; Lelewel's Mediæval, lxxi.; Berghaus's Physical, lxxii.; Keith Johnston's General and Physical, vol. xxii. p. lxxxvii.; vol. xxiv. p. xcii.; vol. xxvi. p. cexxix.; vol. xxviii. p. clviii.; his Royal, vol. xxix. p. clxii.; vol. xxx. p. clxxxvi.; Fromme's Physical, vol. xxii. p. xcix.; Blackie's, vol. xxvi. p. cexxix.; vel. xxviii. p. elviii.; vol. xxix. p. elxiv.; vol. xxx. p. clxxxvi.; Fullarton's, *ib.*; Nelson's, vol. xxix. p. clxiii.; 'Weekly Dispatch,' vol. xxix. p. clxiii.; vol. xxx. p. clxxxvi.

Atmospheric currents, Effect of Hi-

malya on, xxi. 69.

Atondo (Utondwe), Kingdom of, East

Africa, xxix. 45.

ATRATO and Cupica, Route for canal across Central America by, xxiii. 174, 176; vol. xxvi. p. cexxii.; vol. xxvii. p. clxxxvi.

—–, Settlement at, xxiii. 179.

from the Banks of the, to the Bay of CUPICA, on Coast of the Pacific, in 1827. By Lieut. Charles Friend, R.N., xxiii. 191.

-, Explorations through VALLEY of the, to the Pacific, in search of a Route for a Ship Canal. By direction of F. M. Kelley of New

York, xxvi. 174.

-, its mouths, &c. See xxiii. 191 seqq., xxvi. 176.

Attack on Burton's party at Berbera, xxv. 149.

- pilgrim carayan, xxiv. 222; xxv. 131.

—— of Arabs on Monteith's party near the Karun, xxvii. 109.

ATTACKS by Tawarik on Richardson and Barth, xxi. 134.

—— of Bedawin on Poole's party, xxvi. 61.

AUSTRIAN.

ATTANAKADE Ella, stream through great Ellehara embankment, Ceylon, xxvii. 340.

Attara, class of people at Ghadamis descended from freed slaves, xxx.

'Attil, near plain of Sharon, xxiv. 10.

Attyras River, Rumilia, xxiv. 37, 39. Atychan (-shan?) Mountains, Amur, xxviii. 427, 429.

Aububah, ruins in Somali country, ascribed to Gallas, xxv. 141.

AUDAGHOST, Sudan, its ancient trade with Barbary, xxx. 125.

Auemba Tribe, Central Africa, xxiv.

AUJEH River, near Jaffa, and its foun-

tain, xxiv. 11, 18.

Aullagas, lake without outlet, Bolivia, xxvi. 214.

Aur, Gilyak village, Amur, xxviii. 437. Austin, Capt., his Arctic Explorations,

xxii. p. lxxi.

-, Robert, Report of Expedition to explore Interior of Western Aus-TRALIA, XXVI. 235. Composition of party; departure and course; Casuarina plains; superstitions about a great snake, 236—Cowcowing Salt Lake; Mount Kenneth, 240—horses poisoned by a gastrolobium, 242— East Mount Magnet, 244—hostile natives, 245—red kangaroo, 247 extensive Salt Lake, 249 — West Mount Magnet, 250—hostilities with natives, 253—death of Farmer, one of the party, from a gun accident, 255 —Murchison Mount and River, 258 —Mount Welcome, 261—distressing want of water compels retreat, 264— Mount Welcome again, 266—advantages from Gregory's information, 267—reach Geraldine Mines; Fort Gregory, 268—results of the expedition—letter from Mr. Phillips, who proceeded by sea to Gascoine River to meet Austin, 269—letter from Mr. Drummond regarding plants found by the expedition, 272. Letter from W. A. Sanford regarding mammalia. and birds obtained, and deductions from them, 273.

Austria, Geographical work noticed, xxi. p. lxxii.; vol. xxii. p. ci.; vol. xxiii. p. cevi.; vol. xxvii. p. cevi.; vol. xxvii. p. cl.; vol. xxviii. p. clxv. Austrian Imperial Military Geogra-

phical Institute, Gift to the Society from xxi. p. vi.

--- Geographical Society, insti-

AUSTRALIA.

tuted, xxvii. p. cl.; vol. xxviii. p.

Australia, Western, Report of Expedi-TION under the Surveyor-General, J. S. Roe, to the South-East of Perth, between the months of September, 1848, and February, 1849, xxii. 1.

-, its restricted re-

sources, xxvi. 186.

-, Journal of the SETTLERS' EXPEDITION to northwards from Perth, under Assist. Surveyor A. C. Gregory, xxii. 57.

—, See Austin. —, Governor Fitz-

GERALD'S Expedition to MURCHISON RIVER, XXII. 71.

-. By Amos Scott, of the Royal Sappers and Miners, xxv. 176.

See Kennedy's Central. Journal, xxii. 228.

- North and North-West. See Journal of Augustus Gregory's Expedition, xxviii. 1.

--, North-West, Notes on Physical Geography of. By J. S. Wilson, xxviii. 137.

Australia and the Cape, On steam communication with. See Stokes, xxvi. 183.

--, its gold, xxiii. p. cxxiv. ---, causes of its aridity, xxvi. 165.

—, Progress of discovery and geographical knowledge in regard to, xxii. p. lxxxii.; vol. xxiii. p. cxxiv.; vol. xxiv. p. civ.; vol. xxvi. p. cexxiv.; vol. xxvii. p. clxxii.; vol. xxviii. p. exev.; vol. xxix. p. eexi; vol. xxx. p. clxxvi.

—, Coast Surveys of, xxvi. p. cii.; vol. xxviii. p. clii.; vol. xxix. pp. cxlv. cxlix.; vol. xxx. p. exxxvii.

Australian Colonies, General observa-

Analogies of, xxiii. p. cxxiv.

--- current, xxiii. 227.

Australians, Attacks by, xxii. 58,

—, Strength of, as compared with New Zealanders, xxiii. 92.

AUTENRIETH'S map of the Isthmus of Darien, a compilation only, xxiii. 178.

Auwaly, River; Lebanon, xxiv. 2, 3. Ava, city, xxvii. 54, 55 -kingdom of, 62. See Yule, xxvii. 54 seqq.

BABAHAN.

Avé, or Avah, Persia, and Marco Polo's legend about it, xxv. 6.

AVELIMMIDEN, powerful freebooting tribe of Tuwarik in North Central Africa, xxi. 140—identical with Sorgu Tuwarik, exliv. 168.

Averk, or Abarek, Kerman, Persia, xxv. 41.

Avis, Ferashbund, Fars, xxvii. 181.

Avon River, West Australia, xxii. 1, 2. AVREN, Rumilia, xxiv. 39.

—, Bulgaria, ib. 80.

AWADIL, canal in Babylonia, xxvi. 134. 'AWAJ River, *Pharphar* of Damascus, exploration of its upper course, xxvi. 44—discharges into lake, 48, 49;

xxviii. 230.

AWARD of the House of Commons to Dr. Rae, xxvi. p. ccvii.—to Sir R.

McClure, ceviii.

Awards of the Society. See Medals and Premiums.

AWARUA Peninsula, Otago, xxviii. 303.

Awass, mountain in Damara Land, xxii. 143, 152.

Awton, town in Yoruba, xxx. 223.

Ayacucно, a department of Peru, xxvi. 220—details, 225.

Ayan, Sea of Okhotsk, xxviii. 390.

AYLMER Lake, Arctic America, xxvi. 19, 20, 24, 25.

AYMARRA Indians, South Peru, their customs, dress, &c., xxi. 122. See Aimara.

Ayrao, Rio Negro, xxiii. 214.

Ayun, Hauran, xxvi. 51, 52; xxviii.

AYUTHIA, Siam, XXVI, 76, 77.

Azawad, district north of Timbuktu, xxx. 120.

AZER, Mandingo tribe, xxx. 118.

Azobo Gallas, between Abyssinia and the coast, xxv. 217.

Azov, On the Geography of the Sea of, the Putrid Sea and adjacent coasts. By Capt. Sherard Osborn, R.N., xxvii. 133.

—, Sea of, Surveys of, xxvii. p. cxxiii. 'Azzun, Palestine, xxiv. 10.

B.

BAALBEK and its temples, xxiv. 31-its position corrected, xxvi. 53, 54.

Ba'ashiyeh, Babylonia, xxvi. 134, 138. Babharab, Jehrum, South Persia, xxvii.

Babahan, Khuzistan, xxvii. 113.

BABBAGE.

Babbage Island, Gaseovne River, West Australia, xxvi. 269, 270.

Babinet on Oceanic Currents, xxiii. 227. Babisa, or Muiza, a trading people near the Zambesi, xxvii. 383; xxix. 167; but see Biça, Wabisa, Moviza, Muiza. Babonej, South Persia, xxvii. 172.

BABONEJ, South Fersia, XXVII. 172.

BACHE, Prof. A. D., of United States
Coast Survey, XXI. p. XXXIX.; vol.
XXIII. p. cxvi.; vol. XXIV. p. e.; vol.
XXV. p. exxvi.; vol. XXVI. p. cexx.; vol. xxvii. p. elxxxiii; vol. xxix. p. cev. ————————, Patron's Medal

awarded to, xxviii. pp. v. cxvii.

BACK, Sir George, R.N.; quoted, xxii. 180, 183 — acknowledges award of Medal on behalf of Dr. Rae, xxii. p. lviii.—on behalf of Capt. McClure, xxiv. p. lxxviii. — usefulness of his narrative, xxvi. 20.

- Point, Victoria Land, xxii. 85.

- Cape, Arctic Sea, xxii. 79.

Back's Great Fish River, xxv. 251. - Inlet, Arctic Sea, xxii. 83.

"BACKBONE of the World," of the old atlasses, in South-Eastern Africa, what it really is, xxvii. 385.

BACUABI tribe, Matebele, South Central

Africa, xxvi. 108.

Bad, or warm-bath, Transvaal, xxii. 138.

- River, British North America, xxx. 270.

- Hills, British North America, ib. 309.

Badger Creek, Central Australia, xxii. 238.

Baeza, Ecuador, xxviii. 338.

Bafk, oasis of Salt Desert, Yezd, xxv. 23, 24.

Bafran, Nain, Persia, xxv. 15.

Bagamoyo, at mouth of Kingani River, East Africa, the starting-point of Burton and Speke, xxviii. 220, xxix. 40, 43, 45, 56, 62, 64, 88, 94, 95 copal at, 436-439. See also xxiv. 266, 267.

Bagheram, ancient site, Darab, Persia,

xxvii. 161.

Bagh Pesserler, South Persia, xxvii. 172.

Baghdad to Basra, Notes of a Journey from, with description of CHALDEAN REMAINS. By W. K. LOFTUS, XXVI. 131.

-, Tremendous heat at, xxiii. 103; xxvi. 131.

Bagh-I-Nu (printed Bugh), Kazerun, Persia, xxvii. 183.

Bagii-i-Sheikh, Savé, Persia, xxv. 6.

BAIKIE.

Baghlah (vulg. Buggalow), kind of Arab craft, xxiv. 210.

Bagirim (Bagirmi?) on Lake Tsad, xxx.

Bagirma, Land of the Bagirma, east of Lake Tsad, xxx. 122. Bagu-Bagu, Yoruba, xxx. 215. Bahamas. See *Becher*.

Baharlu, pastoral and robber tribe in

Fars, xxvii. 153, 163.
Bahia Escocesa (Scotch Bay), San Domingo, xxiii. 275.

- de San Lorenzo, San Domingo, xxiii. 273, 276.

Bahman Ardeshir, or Ferat Misan, on Lower Euphrates, xxvii. 187, 188.

BAHR-EL-ABIAD, or White River, Jimma country, south-east of Abyssinia, xxv. 207. See also Nile.

- Adda, south-west of Darfur, xxiii. 121.

- Ardнa, a bubbling phenomenon (mud volcano) in Central Africa, xxiii. 122.

- Dup, Trona Lake in Fezzan, xxiv. 279.

Bahret-esh-Shurkiyeh, one of the Damascus lakes, xxvi. 47; xxviii. p. 231.

-HIJANEH, another of the Damascus lakes, xxvi. 48; xxviii. p. 231, 243.

Bahuerachic, mining district of North-West Mexico, xxx. 20, 38—description of mines, 39.

Ba'rg, Ba'ir, sheet of water in North Arabia, xxiv. 135.

Baikal, Lake, Siberia, xxviii. 377.

Baikie, Wm. Balfour, M.D., Brief Summary of an exploring trip up the Rivers Kwora and Chadda (or Benue) in 1854, xxv. 108—Death of Capt. Beecroft; departure of the expedition; summary of its results, 109.

Narrative: Oru or Ejo district, 110 -Basa or Wari tribes; Angiama; brass people; Igbo district, 111—towns of Abo, Igara, and Idda; reach confluence, 112 — Igbegbe and Igbira; Igbira Panda or Igbira Ihi tribe; Bassa, Doma; towns of Dagbo and Akpoko, 113—story of white men being at Keana, 114—Mitshi, a peculiar race; Mt. Beecroft, 115-Kororofa eountry; town of Zhibu; province of Hamaruwa, 116 — people called Baibai, 117—Sultan of Hamaruwa; villages of Djin and Dulti, 119—ferocious savages; turn back; downward voyage.

Table of Positions, 121.

BAIKIE.

Baikie, Wm. Balfour, M.D., references to his expedition, xxiv. p. xevi; vol. xxv. pp. xcv. exviii; vol. xxvi. p. ccx.

Baillie Hamilton Island, Arctic Sea,

xxvi. 27.

BAIN, A., On Geology of Cape Colony, referred to, xxii. p. cxxii.

Baines River, North Australia, xxviii.

RIVER, its origin, course, and tributaries, xxiv. 288. This short paper scarcely admits abstract.

Bairamdéré, Balkan, xxiv. 76.

Bajees, or Sea Gypsies, Indian Archi-

pelago, xxx. 175. Baka'a tribe, South Central Africa,

xxvi. 87, 109.

Bakalahari, a Bechuana Desert tribe in very low condition, xxi. 19—mode of obtaining water, 23—described, xxvii. 368, 370. See Kalahari Desert.

Bakarutsé, tribe on the Zouga, near Lake Ngami, xxi. p. 19; vol. xxvi. p.

BAKER, Capt. George, first English surveyor of the Irawadi, xxvii. 54, 71. -—, Col. George, Obit. Notice, xxx.

Bakhtegan Lake (an erroneous name).

See Neyriz, xxv. 71.

BAKHTIARI tribe, Nomads xxvii. 170.

Baki'n Kogi, Negroland, xxiv. 285.

- Rua (Black Water), a name applied to the Chadda, xxv. 112.

BAKOBA, or Bakhoba, tribe on the Zouga River and elsewhere, xxi. 21; xxii. 164, 165; xxv. 87, 89—character, xxvii. 369. Same with Bayéyé, q. v.

Baku, Caspian, its climate, xxi. 5, 6,

11, 12.

BALAD-KHAN-AZRA, site of ruined city near Aleppo, xxx. 209.

Balajazé tribe, Makololo, South Africa, xxii. 170.

Balawewe tank, Ceylon, xxvii. 336.

BALKAN, or Mount Hæmus, Notes on a Journey into the. By Lieut.-Gen. A. Jochmus, xxiv. 36.

Ballunda, State of, South Central Africa, visited by Silva Porto, xxx. 142; qu. same as Balonda? q. v.

Balm of Mecca, Shrub producing, xxv. 133.

BALOBALE, people of the Chief Sekeletu on the Leeambye, xxv. 223.

BALOJAQUE, North-West Mexico, xxx. 38.

BANGKOK.

Balonda people, South Central Africa, a true negro race and woolly-headed; their great differences from Bechuana, xxv. 222, 223, 225; xxvii. 351—characterised by Burton, xxix.

Balonne River, Central Australia, xxii.

233, 234, 248, 260, 262.

Balsas, floats of inflated sealskin, used on coast of South Peru, xxi. 106.

Balsora (Basra, q. v.), xxx. 199. Balti, or Little Tibet, xxiii. 5, 6, 10, 11—districts of, 13; 14, 16, 22, 24, 26, 27, 29, 30, 34, 35, 37, 38, 43, 44, 56, 57, 60.

Baltic surveys, xxv. p. c.; vol. xxvi. p.

Bam, Missionary at Walfisch Bay, xxii.

Bamanaos of Bambara, Negroland, xxx. 118.

BAMANGUATO, South Central Africa, xxi. 19; xxvi. 85, 109.

Bamaponda, -panda, a people of South Central Africa, xxii. 170; xxiv. 269.

Bamba, South Central Africa, xxx. 151.

Bambara, Niger, xxx. 118.

Bamboos, in Chusan, xxiii. 246—joints of, used by Chunchos east of the Andes to cook in, xxv. 155.

Bambuk, kingdom adjoining Senegal,

xxx. 118.

Bamishir, the eastern arm of Euphrates Delta, being regarded as the bed of the Karun, this led to a political error, xxvii. 189.

Bamo, Burma, the entrepôt of Chinese trade, xxvii. 55, 56, 58, 59, 69—possibly once the site of a British

factory, ib.

BAMYENKA, a tribe of South Central Africa, xxii, 170.

Bana, Balkan, xxiv. 52.

Bana Dirunga, Lake Route, Eastern Africa, xxix. 70.

Banajoa villages, Lake Ngami, xxii. 164.

Bananas, not the fruit, but root and interior of stem eaten in Jimma country, xxv. 209—manifold uses in other parts of East Africa, xxviii. p. 213; xxix. 219.

Banda, south-west of Darfur, xxiii. 121;

xxx. 123,

Baneas, Banias, Jordan sources, xxiv. 24-26; xxvi. 45.

Bangbay language, Central Africa, xxi.

Bangkok, Siam, xxvi. 76—population and aspect, 77; xxx. 177, 195.

BANGPAKONG.

Bangpakong River, Siam, xxvi. 75, 76; xxx. 178.

Banguaketse River, South Central Africa, xxvi. 93, 107.

Bangwe Islet, Lake Tanganyika, xxix. 247.

Banister the buccanier, and his fight at Samana, xxiii. 282.

Banjarmasin River and State, Borneo, xxiii. 71, 81—meaning of the name, 83.

Banka Strait Survey, xxx. p. cxxxvi. Banks's Land, Arctic Sea, xxiv. 242, 243.

Banos, Ecuador, xxx. 71, 74. Banviz, Nain, Persia, xxv. 14.

Banyeti tribe, South Central Africa, excellent smiths, xxii. 170.

Banyassa, people reported north-east of Cazembe, South Central Africa, xxvii. 354

Banyika and Banyoka, people reported on Upper Zambesi, xxvii. 351.

BAOBAB tree (Adansonia) in Bakhoba and Makololo country, xxi. 22; xxii. 167—in North-Western Australia, and uses there, xxviii. 146—in East Africa, xxix. 142.

Baptista, Pedro, his journey across Africa, xxvi. 111, 113, 121; xxvii. 373; xxx. 151.

Bapugeni Caffres in Transvaal state, xxx. 248.

BAQUINIAHAN, North-West Mexico, xxx. 36.

Barada River (*Abana*), Damascus, xxiv. 28, 29; xxvi. 43, 44, 47; xxviii. 230.

BARAMAKAN River, Amur Land, xxviii. 430.

Bararua, Rio Negro, xxiii. 214.

Barawa (Brava), East Africa, xxix. 31. See Brava.

Barbacoas, a mouth of river Atrato, Darien, xxiii. 192.

Barbosthenes, Mount, Laconia, xxvii. 49, 51, 52.

Barclay, Charles, Obit. Notice, xxvi. p. clxxiii.

Sound, Vancouver Island, xxiv. 246; xxvii. 269, 277, 285, 287.

Barcoo River (Mitchell's Victoria), Central Australia, xxii. 228, 229 seqq.; xxvi. 185.

Barden Bay, Baffin's Bay, xxiii. 140. Barengo Lake, alleged to lie north-east of Mount Kenia, xxx. 131.

BARTER.

Barentz's achievements in North-eastern discovery, xxiii. p. lxxix.

Barge, tribe of arabs so called, xxx. 205.

Bargu, Negroland, xxx. 118.

Barr, kingdom on White Nile, xxx. 131.

Baring Cape, Arctic Sea, xxii. 79.

BARK (Chincona) country, Ecuador, xxx. 70.

Barmen, Walfisch Bay, South-West Africa, xxii. 142, 146, 152.

BARN Rock, St. Helena, xxx. 265.

Barnard, Gen. Sir A., Obit. Notice, xxv. p. lxxx.

by Capt. Collinson to await him at Norton Sound, xxv. 196—death of the former, *ib*.

Islands, North-Eastern Australia, xxviii. 5.

Barnett's surveys of Bahamas, xxvi. 196.

Baro River, Nile-feeder, xxx. 131.

_____, South-West Coast of Africa, xxx. 161.

Barometers, inconveniences of, for travelling, xxii. 229—hints on, xxiv. 333, 334, 336—not recommended for explorers, 348.

West Tibet, xxiii. 64.

Barotse, or Borotse, people and country, South Central Africa, xxii. 165, 169, 170—character and annual inundation, xxiv. 295—food plentiful, fever very severe, 296; xxv. 220-222; xxx. 139.

Barrack dwellings of some eastern races, xxvii. 68.

Barranca Chica and Grande, anchorages at Samana, San Domingo, xxiii. 273.

Barren, Mounts, West Australia, xxii. 7, 28, 32, 34, 38, 44, 45, 50.

Barrette River, Mombasa, xxviii. 192. Barrow Strait, Arctic Sea, barred with ice to the *Prince Albert*, xxiii. 123—seen by McClure's parties, xxiv. 244.

Bars Khoto, on the Argun, Mongolia, xxviii. 378.

— of Borneo Rivers, xxiii. 70.

Barsa Kilmess, Island on Aral Sea xxiii. 94, 97.

Barter in East Africa, xxix. 435.

BARTER.

Barter Island, Arctic America, xxv. 202, 204.

Barth, Dr. Henry. See African Mission. -, LETTER of, to Dr. Beke, from Tintellust in Sahra, xxi. 134—report of Journey to Agadez, ib., 137—second Letter to Dr. Beke from Kano, ib., 191—Letter to Mr. Petermann, ib.; 208.

- and Overweg, xxiii. p. cx.—his progress, xxv. pp. xcv., cxxi., 113 — Patron's Medal assigned to, xxvi. pp. viii. clxviii. ccix.; his investigations and publications, xxviii, p. ccii.

-, Communication of an account of two Expeditions by the FURANYS IN CENTRAL AFRICA, XXIII. 120.

extract of LETTER to Dr. Beke from TIMBUKTU, xxiv. 283.

Route taken from Libtako to Timbuktu; numerous channels of the Niger, 284—Kabara; grandeur of the Mayo or Niger; entrance to Timbuktu; latitudes and longitudes, 285—route given from Mozambique to Lake Nyassa, ib.

General HISTORI-CAL Description of the state of HUMAN SOCIETY IN NORTH CENTRAL AFRICA, xxx. 112.

Physical Features of North Africa.— Broad Desert Belt; Nile and Niger; lines of Oases, 113—mountains, sandhills, 114—changes of temperature; fertile regions, 115—History of Population. — Berbers, or Mazigh; Mandingoes, 117—Fulbe, or Fula, 118 the Jolof, 119—the Songhay; Hausa, 120—Kanuri, or Bornu; Tebu, or Teda, 121—Yoruba, Nufé; Dahomé, and Ashanti, 122-Tombo, Mosi and Gurma; Bagirma; Wadai, 123—Dar Fur. Population, 123. Commercial Importance, 124. Religion, 127.

Bartlett, John Russell, his reports of the Mexican Boundary Commission commended, xxv. p. cxxvi.

Barue, Zambesi, xxx. 155, 156.

Barwan River, Central Australia, xxii. 232, 233, 267-269.

BARYN Tarei Lake, an example of the shallow, drying-up lakes of the high Darien steppes, Russo-Mongol frontier, xxviii. 415.

Bashan, Explorations in the Desert east of Hauran, and in the ancient land By Cyril C. Graham, xxviii. of. 226.

BATTA.

Bashan, Porter's Explorations in, xxvi.

Bashkoi, Balkan, xxiv. 60, 66.

Bashubea tribe, Makololo country, South Africa, xxii. 170.

Bashukolompo River, supposed great tributary of the Zambesi from the north (or Maninche), xxii. 168, 173; xxvi. 116; xxvii. 354.

country and tribe, xxii. 169, 171; xxiv. 294, 297.
Basins of Tibet, Areas of the, xxiii.

36.

Basita, part of desert of North Arabia, xxiv. 136. See Albuseita.

Basle, Switzerland, increase of population, xxiv. 315.

—, Treaty of, in reference to San Domingo, xxiii. 267.

Basrah (Bussora, Busra), Baghdad to.

See Loftus, xxvi. 131.

- (Albasra), xxiv. 171, 174; xxvi. 153; xxvii. 108; xxviii. 249, 255—alleged ruins of ancient Balsora as distinct from, xxx. 198.

Bassa country and people, Chadda River, xxv. 110, 113.

Bassara, Laconia, xxvii. 52. Bassein branch of Irawadi, Burma, only open in rains, xxvii. 80.

Bast clothing of tribes in lake regions of East Africa, xxix. 222.

Basta, excellent spring near Ma'an in North Arabia, xxiv. 121.

Batanea, Bashan, xxvi. 49. See Bathaniyeh.

BATE, Capt. Thornton, R.N., surveys in China Sea, xxi. p. lxvi., vol. xxiv. p. xc., vol. xxvi. p. xcix., vol. xxvii. p. cxxvi.

—, Obit. Notice,

xxviii. p. cli.

Bathaniyeh (Batanea), Bashan, xxvi. 49; xxviii. 242.

Batoana Bechuanas of Lake Ngami, xxv. 93.

BATOKA, black tribe of Makololo country, xxii. 169, 170.

BATONGA, people of South Central Africa, xxvi. 108; xxvii. 384.

BATOPILAS, South Pedrode, North-West Mexico, xxx. 31—town, healthy climate, and rich mines, 34.

Batoseagachic mines, North - West Mexico, xxx. 28.

Batruny, Antilibanus, xxiv. 29.

Bats, large, in North-West Australia, xxviii. 148.

Batta of Adamawa, Negroland, a fine race, xxx. 123.

BATTABONG.

Battabong, Cambodia, xxx. 183, 185. Apparently same as Mattabong, q. v.

Batticaloa, Ceylon, xxvii. 338.

Battle River, tributary of Saskatchewan, with rich soil, xxx. 285—destruction of its timber by Indian prairie fires, 286, 312.

BATTY Bay, North Somerset, Arctic Sea, the *Prince Albert* winters at,

xxxiii. 124.

BAUDO River, near Darien Isthmus, ineligible for canal line, xxvi. 175, 177.

Bauza, eminent Spanish surveyor in America, xxiii. 175, 178.

BAVARIA, Geographical work of, noticed, xxii. p. xcix.; vol. xxix. pp. clxiv.,

BAVICKO, or Wavicko, tribe north of

Lake Ngami, xxv. 90.

Bayeye, Bayeiye, tribe of Zambesi region, xxii. 169—near Lake Ngami, xxv. 89 — their character, customs, agriculture, &c., 93, 96—Damara and Chylimansé, comparative vocabulary of, 96. Same with Bakoba, q. v.

Bayfield, Rear-Admiral, his surveys on the coast of British America, xxi. p. lxvi.; vol. xxiv. p. xci.; vol. xxv. p. ciii.; vol. xxvi. p. cci.; vol. xxvii. p.

exxviii.

-, Dr., his remarkable journey from Ava to Assam, xxvii. 56, 68,

BAYLEY'S proposed canal from Lake Nicaragua to Pacific, xxi. 98.

Bazartchuk, Danube Delta, xxx. 163. Bazizula gold-washings, south of Zambesi, xxvii. 379.

BDELLIUM, or Mukl, of East Africa de-

scribed, xxix. 142.

BEAD trade and barter in East Africa, xxix. 189, 325, 423 seqq.

Beagle Valley, North Australia, xxviii.

Beale and Heap's journey from Missouri to the Pacific, xxiv. p. cii.; vol. xxvi. p. ccxx.

Beanes Brook, North Australia, xxviii.

Bean, Subterranean sweet, Makololo,

curd or cheese in Chusan, a Chinese anticipation of a discovery by Liebig, xxiii. 261.

BEAR, Religious prominence of the, among tribes of the Amur, but his

end is to be eaten, xxviii. 396.

- Island, First ice in Spitzbergen Sea occurs at, 1500 miles from Woolwich, xxiii. 133.

BEDAWI.

Beards of the Zemim Arabs, Reported

magnificence of, xxiv. 201.

Beaufort, Rear-Admiral Sir Francis, acknowledges medal on behalf of Capt. Inglefeld, xxiii. p. lxi.—his observations of a southern connecting current, xxiii. 218—recommends steam line to Australia by Singapore and Torres Straits, xxvi. 183—Obit. Notice of, xxviii. p. cxxiii.

- Valley, Upper Savoy.

Chaix, xxv. 182.

BEAUTEMPS-BEAUPRÉ, Obit. Notice, XXV. p. xciii.

Beaver in New Zealand, Alleged, xxi.

- Harbour, Vancouver Island, xxvii. 269, 275.

— Lake, British North America, xxii. 182; xxx. 308.

- River, xxii. 182, 184. - Foot Pass, Rocky Mountains, xxx. 296, 299.

Bebrova, Balkan, xxiv. 65, 66, 68.

BECHER, CAPT. A. B., the LANDFALL of Columbus on his first voyage, xxvi. 189—disputed question as to the San Salvador of Columbus; Turk's Island, or Cat Island? Neither of them right; Columbus's own words prove it, 190 -Watling Island alone suits them, 191 — other reasons excluding Cat Island, 192—the islands successively visited agree in their relation to Watling Island, 193-4—digression regarding Columbus's constant expectation of finding Cipangu (Japan), 195 --- progressive corroborations of the author's theory, 195-198—the Admiral's Isabella is Crooked Island, 199 voyage to Cuba, 200, 201—his port there shown to be Nipé, 202—ardent enthusiasm of Columbus, 202—natural exaggeration, 203.

- Bay, Vancouver Island, xxvii,

282.

- River, Arctic America, xxv. 251.

Bechuanas, xxi. 21; xxii. 156; xxv. 84 —gradual desiccation of their country, xxvii. 356—traditions, 364—character, 368—Bible in their language,

Beck, Adam, his tale of Franklin's being murdered at Omenak, xxiii. 137, 139; xxvi. 28.

Bedawin, Bedawin, Badawin; Nomad tribes of Arabia, xxiv. 117 and Wallin's two articles passim; Burton, xxiv. 208 seqq., and xxv.

BEDDE.

121 seqq.; their exactions from townsmen and traders, xxiv. 122, 149—of Shammar country, 198—of the Somal coast, xxv. 140—attacks by, on Burton's party, xxiv. 222; xxv. 131—on Poole's party, xxvi. 61—use no measures of distance but hours, xxiv. 215; xxv. 123—their highly developed faculties in distinguishing localities, 216—fondness for nicknames, xxv. 124.

Bede tribe of Bornu, xxx. 121. Bede, district of Yoruba, xxx. 212.

Bedford, Comm. R.N.; Coast-Surveys of Scotland and Ireland, xxi. p. lxv.; vol. xxiv. p. xc.; vol. xxvi. p. cxciii.; vol. xxvii. p. cxliv; vol. xxix. p. cxlii.; vol. xxx. p. cxxx.

BEDRABAD, between Ispahan and Yezd,

xxv. 18.

Beechey, Rear-Admiral Frederick William; his address as President of the Society, xxvi. p. clxxi.

_____,Obit.

Notice of, xxvii. p. xciv.

observations and instruments for travellers, xxiv. 337.

Pacific currents, cited, xxiii. 226, 230, 234.

Captain), takes possession of Bonin Islands, xxvi. 232—his address cited, xxix. 4—cited on the Sea of Spitzbergen, xxiii. 131—reference to his investigation of tides of North Sea, xxi. p. lxv.

Island, Arctic Sea; Belcher's squadron visited there by Inglefield,

xxiii. 143; xxvi. 29.

Beecroft, Capt. John, his death, xxv. 108—Obit. Notice, ib. p. lxxxiv.

———, Mount, Chadda River, xxv. 115.

Beehives of hollowed logs in East Africa, xxix. 117.

BEER Vley, lake, Griqua country, xxviii.

BEESWAX, export of, from Borneo, xxiii. 75—from East Africa, xxix. 449.

Behderan, Kerman, Persia, xxv. 42.

Behring Straits, the whale fishery in American hands, xxiii. 134—proceedings of H.M.S. *Enterprise* passing, xxv. 194.

Beisan, Jordan, and remains there, xxiv. 20, 21, 22, 25.

Beit Furik, Palestine, xxiv. 18.

BENGUELA.

Beit Ilfa (Bethulia?), Palestine, xxiv. 22.

— Jenn, Galilee, ib. 6.

_____, south of Hermon, xxvi. 45. ____ Lahm (Bethlehem of Zabulon), xxiv. 8.

—— Sakarieh (Beth Zacharia), ib. 17.

— Ummar, towards Hebron, *ib*. Beke and Moore, discoveries of the depression of the Dead Sea, xxiii. 171.

Bekje, Balkar, xxiv. 76.

Bektashi Dervishes, *ib.* 43. Bel-Ara tribe, Tripoli, xxii. 132.

Belat, a great chasm of the Litany

River, Syria, xxiv. 24.

Belcher, Sir Edward, and Kellett's exploration in search of Franklin, xxii. p. lxxi.; xxiii. 129, 136, 137; xxiv. p. xxxviii.; vol. xxvi. p. ccviii—his squadron visited by Inglefield, xxiii. 143.

currents, xxiii. 234.

Belfort Castle (Kala'at esh Shakif) on the Litany, Syria, xxiv. 3.

Belgium, Geographical work of, noticed, xxi. p. lxxi.; vol. xxii. p. eii.; vol. xxv. p. exx.; vol. xxx. p. elxxxiv.

Beliar, a Tungus tribe, Amur, xxviii. 398.

Belka Range, near Dead Sea, xxiii. 163.

Bell Island, Arctic Sea, xxii. 78.

Bellevue Island, Vancouver Island, xxvii. 301.

Bellingham Bay, Washington territory, xxvii. 314.

Bellingshausen Island, Sea of Aral, xxiii. 97.

Bellot, Lieut., of the French navy, his good service on the voyage of the *Prince Albert*, xxiii. 124-126; *ib.* p. lxxvi.—his death, xxiv. p. v.—Obit. Notice, lxxxvi.—his journal referred to, lxxxviii.; xxvi. 29—testimonial in memory of, xxvi. p. viii.

Bells upon reaping-hooks to drive away adders in Cyprus, xxii. 224.

Belyando River, North-East Australia, xxviii. 124.

Ben Afien, desert of, Tripoli, xxiv. 278.
Bence Jones Island, Arctic Sea, xxv.
253.

Bend (Band, Bund), at Seleucia, xxiii. 158.

Benderghil. See Bundi Khil.

Benguela to Ibo and Mozambique through Africa, Journeys of Sieva

BENGUELA.

Porto with the Arabs, from. James Macqueen, xxx. 136.

Benguela, Caravan journey from Zanzibar to, by three Arabs, xxiv. 266, 271.

BEN Habib, an Arab trader who gave Livingstone information as to Lake Tanganyika, &c., xxvii. 354, 357,

Beni River, a tributary of the Ucayali, and eventually of the Amazon, xxv. 156; xxvi. 216.

Beni Amir, west of Red Sea, xxv. 217.

– Der, Arab tribe, xxiv. 142.

— Hamide, Arab tribe, xxvi. 62.

— Harb, Arab tribe, xxiv. 219, 222, 224.

- Hilal, Arab tribe, xxv. 270. Benoo.

- Houle, Arab tribe in Oman, xxix. 50.

— Husayn Sayyids, xxv. 127.

— Khalid, Euphrates, xxx. 202. — Lani, Khuzistan, xxvii. 109.

- Nar, "Sons of Fire," i. e. English,

xxviii. 201. - Orkbé, Arab tribe, xxvi. 61-64.

- Sakhar, east of Jordan, xxviii. 261. See Benoo.

- Suchke, east of Jordan, xxvi. 62.

Benicia, California, xxx. 2.

Beniolid Valley, Tripoli, xxiv. 276,

Benoo Asad, Arab tribe, xxiv. 170 origin, 191, 192.

- Ferir, Arab tribe, formerly in Shammar country, ib. 189, 191.

- Hay, of Wadi Tih, otherwise

Huwcitat, *ib.* 118.

-- Hilal, great and renowned tribe, *ib.* 117, 166, 190, 196—also in Tunis, 202; and see Beni.

Kalb of Al Jauf, in time of

Mahomed, ib. 153, 158.

——- Keis, great tribe, *ib*. 190, 193.

——- Kenana, ib. 153.

—— Sa'd, *ib*. 169-171.

--- Sa'ade, formerly in Shammar country, ib. 189, 192.

-- Sakhar, ib. 126, 130, 137. See Beni.

-- Tamim, Temim, great tribe, ib.

170, 177, 190, 192, 194, 196, 201, 202. country, ib. 189, 190.

--- Ukba, *ib*. 131.

——— Umaya, ib. 121.

BETHZUR.

Bentinck Island, Vancouver Island, xxvii. 282.

Benuwe River, or Chadda, q. v., xxv. 108; xxx. 119, 125, 127.

Berada River, Damaseus. See Barada. Berbers, great race of North Africa, descendants of, in Jibal of Tripoli,

xxii. 134—or Mazigh, xxx. 115, 116, 127—at Ghadamis, *ib*. 256.

Berbera, Sumal country, Stroyan and Herne at, xxv. 137, 143—caravans from Harar to, 146—Burton's return to, and attack on his party there, 148; xcv., 150, 206, 209, 210. See Burton and Stroyan.

Berdiansk, sea of Azov, xxvii. 144, 148. Berdy River, shown in maps cast of Hermon, non-existent, xxvi. 46.

Bereadi on Milo, ancient aeropolis, xxii. 210.

Berghaus, Hermann, his mistakes about Damascus pointed out by Porter, xxvi. 46 seqq.—about East African Lakes, xxix. 234—his map of Hinter-Indien, xxvii. 58.

Bergstrasser on possibility of uniting Sea of Azov and Caspian, xxx. p.

clxxxi.

Berhayn, mounds in Babylonia, xxvi. 141.

Beribe, or Iso River, Lake Ngami, xxii.

Bernier Island, Shark's Bay, West Australia, drift timber found on, xxvi. 271.

Berry Island, Baffin's Bay, xxiii.

Bertou, Comte de, his examination of the Wadi Arabah, xxiii. 167, 170.

Besh Zepah, Dobrudshah, xxvii. 220. Beshar, a division of the Anazeh Arabs, xxviii. 232.

Bessarabia, xxvii. 220, 223.

Bessima, Antilibanus, xxiv. 29.

Bet Island, Torres Straits, xxvi. 184. Beth Gamul of Scripture, Um-cl-Jimal

in Bashan, xxviii. 250. - Shemesh, plain of, Palestine, xxiv. 12.

- Takkura, ancient emporium of Chaldaa, xxvii. 185.

Yakkina, ancient emporium of Chaldæa, ib.

Bethany, Judea, geologically viewed, xxvi. 57, 70.

-, South-West Africa, xxii. 137.

Bethel, Palestine, xxvi. 56. Bethlehem, xxvi. 58.

– of Zabulon, xxiv. 8.

Bethzur, Judea, xxiv. 17.

BETTE.

Bette, or Patta Island, East Africa, xxix. 31, 310.

Bexley, Lord, Obit. Notice, xxi. p. lvii. Beygnara Toung, mountain in Aracan, xxiv. 90.

Beysough River, Sea of Azov, xxvii. 148.

Bezoar stones in Borneo, said to be extracted from porcupines and apes, xxiii. 75.

Bhaghirathi River, feeder of Ganges, xxi. 64.

Bhang (Cannabis Indica), smoked in East Africa, and its grotesque effect,

Bhot, Bhotiya, Indian names of Tibet, Tibetan, xxi. 84; xxiii. 1, 19.

BIAFRA, Bight of, xxx. 121.

Brble in the Sechuana language, xxii. 169.

BIBLIOGRAPHICAL list of authorities on hurricanes. See Poey, xxv. 313.

Bica, Babisa, or Movizas, South-east Africa, xxx. 142, 149. See Babisa, Wabisa.

BIDEH, between Ispahan and Yezd, xxv. 18.

BIDJAN River, Amur, xxviii. 442.

Bienho, or Tale Sab, Great Cambodian Lake, xxx. 179, 184, 195.

Bighorn (wild sheep?) of Rocky Mountains, xxx. 301.

- River, Rocky Mountains, xxx. 302.

BIHE Kingdom, South Central Africa, xxiv. 266—Ladislaus the Hungarian marries there, 272, 274; xxvi. 123, 124, 129, 130; xxvii. 357; xxx. 137. Billah, or Obilla, Lower Euphrates,

once an island, now far inland, xxvii. 185, 186.

Bilna, Sahra, xxx. 121.

Bimbeja, Fezzan, xxiv. 279.

Bimberi, country of black Pagans reported to south-west of Dar Fur, xxiii. 121.

BINBIR Ahmed Oglu's tomb, Rumilia, xxiv. 42.

BINGA, a Pagan country south-west of Dar Fur, xxiii. 121. Binjemaring Hills, West Australia,

xxvi. 236.

BINTULU River, Borneo, xxiii. 71—its iron, 73-and antimony, 73, 75.

BIR Said, Hijaz, xxiv. 217.

-- Abbas, on Burton's route to Medina, xxiv. 221,

BIRD, William Wilberforce, Obit. Notice of, xxviii. p. cxxxvii.

Birds, of Louisiade Archipelago, xxi.

BLACKIE'S.

16-of North Guinea, 18-of Tibet, 79—of Tarapaca, 106—of Samana, San Domingo, xxiii. 280 — of West Australia, xxvi. 273—of Fiji, xxvii. 267—of Vancouver Island, ib. 291.

Birch, Palestine, xxvi. 56, 57.

BIRKET-ER-RAM, Jordan heads (L.Phiala), xxiv. 26.

- Faraun, Red Sea, xxiv. 212. - el Kurmel (southern Carmel), xxvi. 59.

- el Ketme, Dead Sea, ib. 62. - el Khalil, Dead Sea, ib. 66.

Birni in Bornu, xxx. 128.

-- -n-Guari, in Hausa, xxiv. 285.

Birs Nimrud, xxvi. 140.

BISCACHA, burrowing quadruped of South Peru, xxi. 119-121.

BISHOPRIC of British Columbia, xxix. p.

Bissombo River, South-East Africa, xxx. 143.

BISULPHURET of iron, West Australia, xxv. 176.

BITTER Lakes of Suez Isthmus, xxiv. 235.

BIUK Keneges, Putrid Sea, Crimea, xxvii. 134.

Black and white subdivisions of tribes in Central Africa, xxx. 116. Compare xxix. 312.

- Mountains, Fezzan, xxiv. 278. — Sea and Caspian, Abich on

country between, xxi. 1.
— Sea, xxvii. 220—surveys of, xxv. p. c.; vol. xxvi. p. exevi.; vol. xxvii. p. cxxxiii.

BLACKFOOT Indians, xxx. 279, 285.
BLACKNEY, WILLIAM, R.N., Ascent of the Yangtsekiang, xxx. 93—in the Dove, 94—changes since charts were made; the Furious strikes, 95—desolation caused by civil war; Nanking fires on the squadron; Porcelain tower no longer exists, 96—Woohoo; Nganking, 97-Poyang Lake; Kew Kiang; Hankow, 98-great crowds; descent of river; Furious sticks again; she gets off, 100; flying survey.

BLACKWALL Island, Chusan,

244.

Blackwood, Capt. F. P., Obit. Notice of, xxiv. p. lxxx.

-, his surveys in Torres Straits, xxvi. 183.

- River, West Australia, xxii. 55.

- Point, Baffin's Bay, xxiii. 109.

Blackie's Atlas. See Atlases.

BLACKTE'S.

BLACKIE'S General Gazetteer, xxi. p.

Blagoveschensk, Amur Land, xxviii. 382.

Blake's Notice of Tarapaca, eited, xxi. 105, 114.

BLAKISTON, Lieut.. in connection with Palliser's expedition, xxx. 267, 276, 278, 283, 288, 289, 295, 297.

BLANCHARD, Governor, Vancouver Island, xxvii. 320.

Bland, Mount, West Australia, xxii.

BLAAUW Kopje, Orange River State, xxx. 237.

Bleek, Dr., invalided from Chadda River Expedition, xxv. 108.

BLENHEIM, Battle of, parallel with battle of Sellasia, xxvii. 41.

Bligh Entrance, Torres Straits, xxvi.

BLIND traveller. See Holman.

BLODGET on monsoon in Western Texas, xxvi. 167.

BLOEMFONTEIN, Orange River State, xxx. 236, 238, 243.

BLONDE Shoal, mouth of Yangtsekiang, xxx. 94.

BLONDEL Swartz Hottentots, xxii. 157. Blood-sucking from living bullock by certain East African people, xxix. 364.

BLOODY Fall, Coppermine River, xxii. 83, 95.

Bludan (or Bludau?), Antilibanus, summer quarters of Europeans of Damascus, xxiv. 29; xxvi. 43, 53,

Blueberg, South Africa, xxiv. 289.

Blue Kraus River, Natal, xxx. 233,

- Mountains, Aracan, xxiv. 105. Bluff Harbour, Otago, xxviii. 303.

Blundell, Commissioner of Tenasserim, xxvii. 55.

Blunder Bay, North Australia, xxviii.

Boa Vista, Bihé, South-West Africa, xxx. 137.

Boamy (Bweni) on the Pangani River, East Africa, xxvi. 118, 119. See Bweni.

Boards of Directors of Mining Companies, Abuses among, xxx. 49

BOAT carried with Central African mission for use on Lake Chad, xxi. 132—launched on the lake, 220.

- of corrugated iron sent with Burton to East Africa, xxix. 9.

BOLLAERT.

BOATS, rafts and paddles of North-west Australians, xxviii. 152.

- on Lake Tanganyika, xxix. 238

seqq.

Boca Arena, mouth of Atrato River. Darien, xxiii. 192—ealled Tarena. xxvi. 176.

· Coquito, mouth of Atrato River, Darien, xxvi. 176.

de las Pavas, mouth of Atrato River, Darien, xxiii. 192; xxvi. 176.

Bocomoio, or Bogamoio, opposite Zanzibar, xxiv. 266, 267. See Bagamoyo.

Bodyul, indigenous names of Tibet and Tibet Proper, xxi. 84; xxiii. 1, 3, 7, 15.

Bodchan (Great Tibet), xxi. 2.

Bodegas, Ecuador, xxx. 65.

Bœotia, xxvii. 15.

Boers, Dutch, of Transvaal, &c.; their obstruction of travellers and hatred of English, xxii. 139-141 — their hostility to missions, xxvi. 107—their unhealthy domestic habits, xxx. 248; xxx. 241 and same article (Sanderson) passim.

Bogan River, Central Australia, xxii.

Boghaz of Monastir, Balkan, xxiv. 67. Boghaz-dere, Balkan, ib. 54-56, 76, 82. Bogorodski, Amur, xxviii. 435.

Воното, Manchuria, xxviii. 408.

BOIALA, Balkan, xxiv. 76. BOKHARA and Samarkand, Lehmann's mission to, xxiii. p. lxxxviii.

Bolanos, Costa Rica, xxi. 96.

- Mining Company, Mexico, xxx. 52.

Bolivia, Communication of, with the sea for export, xxiii. p. exxi.; Lloyd, xxiv. 259 seqq.; see also Markham, xxv.

-, Weddell's narrative, and other explorations referred to, xxiii. p.

-formed part of the Incas' do-

minions, xxvi. 210.
Bollaert, W., Observations on the Geography of South Peru, with survey of Tarapaca, and route to Chile, by eoast of Atacama Desert, xxi. 99 the author's opportunities of knowledge; journey from Valparaiso, 100 -winds at different seasons; Arica: Jacora; hopeless aridity; rainlessness. Port of Islay, ehief one of Arequipa, a mere rocky landing; ascent to Arequipa; first to the great Pampa or high desert plain; Medanos, or concave moving sandhills, 101 — barren

BOLLAERT.

hills; then Arequipa at base of its volcano. Earthquakes and eruptions; province of Tarapaca, 102—first Spanish discovery by Almagro in

1537; barren character.

Physical Features.—I. Arid Coast Mountains; II. Pampa, great plain of Tamarugal, 103; III. Desert range of mountains; IV. Elevated district with pastures and brushwood; V. Western Cordillera; VI. Elevated undulating region of the Puna, Paramo, Sierra, or great mountain knot of Potosi, the seat of much volcanic action, but little known, survey by G. Smith, 104—boundaries and divisions of the province; taxation; Curatos or districts:—

I. Tarapaca; effect of storms; produce; rumbling mountain; sundry details, 105—port of Iquique; signs of recent upheaval of the coast; water brought 45 miles, 106—absence of rain; seabirds and guano; fishermen and their Balsas; consumption of tobacco; prospects of mineral wealth, and places named of promise in that way, 107 — silver-mines of Guantajaya; details, 108 — mines of Santa Rosa and El-Carmen, 109 — curious Indian works called Las Rayas and Pintados on the hill-sides; salt deposits and speculations as to their

origin, 110.

II. Pica, on east of the Pampa; water scanty, from thermal springs, 111—socabones, or subterranean adits, driven into rising ground, of great length. Vegetable produce; houses of sun-brick and bamboo; ague and remedies; earthquakes; insect plagues; Matilla; Pampade Tamarugal, from the Tamarugo, the only fruit-tree; dead-wood deposits found under the soil, 112—wells in the Pampa not salt; ravines or Quebradas from the Andes; mirage; whirlwinds and sandstorms, 113—La Tirana; experiments in cultivation; nitrate of soda; details, 114—Quebrada de los Pintados with Indian figures on the hill-side, 115 guano deposit; gold and silver mines of Chanabaya, 116.

III. Curato of Sibaya, Angosturas, singular fissures, narrow and deep; Indian hamlets, llamas; cactuses;

steep and dangerous tracks.

IV. Camiña, 117—port of Pisagua; mineral products; ancient Indian cemetery, 118—route from Camiña to

BOOMERANGS.

Isluga, with details; volcano of Isluga, 119—names of other volcanoes; town of Isluga in the Cordillera; the frozen potato, and liquor made from it; animal life; the puma and condor; fuel. Salt Pampa east of Isluga, said to be 40 leagues long; . . . Volcancitos (or Geysers) of Puchultisa, 120—the burrowing *Viscacha*; Chiapa; Devil's Road.

Ascent of the mountain of Tata Jachura, 121—height, 17,000 ft.; view

of the Andes; animals seen.
Indians of Tarapaca; speak Aymarra, 122—christianized; position better since separation from Spain; character; food; coca; houses; dress, 123—women; travelling doctors.

Description of the sections accompanying the Paper, 123-125.

Earthquakes, 126.

Route by the coast from Cobija to Coquimbo, with observations on the meteoric iron of Atacama, 126-129analyses of the iron, 130.

BOLLAERT, W., observations on the COAL

formation of Chile, xxv. 172.

---, xxi. p. xciii.; projects a journey across Africa, xxiv. 271—communicates papers by Ledesma, xxvi. 210—and De la Fuente, xxvi.

Bolsones, "Pockets," or circular basins of Central America, xxx. 59, 60.

Bolshog Ain River, East Siberia, xxviii. 405, 406.

Bomani, East Africa near the Kingani, xxviii. 222; xxix. 64.

Bomba, South Central Africa, xxvi. 121.

Bombon, table-land, Peru, xxvi. 212.

Bombonaza River, Ecuador, xxx. 71-73. Bondu, kingdom south of Senegal, xxx. 118.

Bong Madma, Nari, Tibet, xxiii. 4, 11, 15, 16.

Bongba, district of Purang, Nari, ib. 13, 15, 16.

Boniface, Count, xxvii. 13.

Bonin Islands, Notes on the. By Capt. MICHAEL QUIN, XXVI. 232.

-, discussions as to original claim to, xxvi. p. ccxxviii.

Bonjem, Fezzan, xxiv. 277.

Bonnant River, tributary of Arve, xxvii. 225.

Bonye River, Lake Regions of Africa, xxix. 303.

Books in Central Arabia, xxiv. 185, 186, Boomerangs in Africa, xxx. p. clxiii.

BOOMI.

Boomi River, Central Australia, xxii. 232.

BOOZAK Kolk, Great Bushmanland, xxviii. 163.

Borate of lime, Tarapaca, South Peru, xxvi. 231.

Borathat River, East Burma, xxvii. 97.

Borchi, Manchuria, xxviii. 408.

Bordo, Manchuria, ib. 409.

Bore in the Sitang River, Burma, xxvii. 63, 81.

Borne River, tributary of Arve, xxvii. 225, 230.

Borneo, Sketch of the Geography of. By John Crawfurd, xxiii. 69.

-, Geographical progress in relation to, xxii. p. exi.—Dr. Schwaner on, xxv. p. cxiv.—Mr. Wallace's views as to, xxvii. p. clix.

Bornu, Central Africa, xxi. 219, 220; xxx. 115, 120, 124, 128.

Boromaji, East Africa, xxix. 45.

Borotse, people north of Lake Ngami, xxii. 165, 169, 170, when better known

called Barotse, q. v.
Borrow's alleged Gypsy metropolis in Bulgaria said to have no existence, xxiv. 71.

Borsuki, Little and Great, sandy deserts north of the Sca of Aral, xxiii. 97, 98.

Borullo, South-East Africa, xxx. 145. Botany of Louisiade Archipelago, xxi. 15—of New Guinea, xxi. 17—of Kumaon Himalya, xxi. 73—of Western Australia, xxvi. 272—of Vancouver Island, xxvii. 289.

BOTHNIA, Gulf of, survey of, xxvi. p.

Botletle River, and people, between Lake Ngami and the Zambesi, xxii. 165; xxvi. 108.

Bottle Gourds, various uses of in East Africa, xxix. 384.

Bou-ajeela, oasis in Tripoli, xxii. 132.

Bou-asa, oasis in Tripoli, ib. 132.

Boubastis Mount, Acarnania, xxvii, 5. Boukenhouts Klooft, Transvaal, xxii.

Boulder dispersion by ice, illustrated, xxv. 197.

Bouna'ash, Babylonian Canal, xxvi.

Boundary between British Colonies and United States, how sacrificed, xxii.

Bourgeau M., botanist of Palliser's expedition, xxx. 267, 283, 288, 289, 294, 297.

Boussa, Niger, xxx. 148.

BRIDGE.

Bow River, branch of Saskatchewan, Rocky Mountains, xxx. 290, 292, 298,

Bowes River, West Australia, xxii. 66, 71.

Bowling Green, Cape, North - East Australia, xxviii. 5.

Bowman Spring, North Australia, xxviii. 112.

Bowring, Sir John, his treaty with Siam, xxvi. 71.

Bows and arrows in East Africa, xxix.

Boyd, Benjamin, death of, xxv. p. exxxi. -, Mount, Central Australia, xxii. 258.

Boyer, President, of Hayti Republic, xxiii. 268.

BOYNE River, North-East Australia, xxviii. 132.

Bozrah, Busrah, Bostra, in Moab, xxvi. 50, 51; xxviii. 239, 245—Graham's arrival at, and trouble with the Arabs, 246 — the remains, 249 — the three cities of this name, ib. 250, 252, 253, 255, 261.

Brahma Kund, Brahmaputra, xxvii. 64.

Brahmans, in Kumaon, xxi. 83.

——, village of, Aracan, xxiv. 92. Brahmaputra, supposed sources of, i. e. sources of the Sanpu, or properly Tachok Tsangspo of Tibet, and their identity, xxi. 64; xxiii. 7, 35.

Brak, or Ongar River, Great Bushman-

land, xxviii. 155.

Bramador, or Rumbling Mountain, in Tarapaca, South Peru, xxi. 104.

Brand, Vice-Consul. See Cooley, xxiv.

Brass town and people, Kwora River, xxv. 110, 111.

Brazeau range, Rocky Mountains, xxx. 279, 302.

Brazil current, xxiii. 219.

- coast surveys, xxvi. p. cci.; vol. xxvii. p. cxxxvii.

Bread fruit, xxi. 17—gum of the breadfruit tree in Fiji, xxvii. 249.

Bremer range, West Australia, xxii. 9.

Bay, West Australia, xxii. 46, 48.

Brennus and the Gauls, their operations against Thermopylæ, &c. See Jochmus, xxvii. 12 seqq.

Brentford Bay, Prince Regent's Inlet, Arctic Sea, xxiii. 127.

Brianda River, Amur Land, xxviii. 428. Bridge, natural, Lebanon, xxiv. 35.

BRIDGES.

Bridges, Iron chain, over Sutlej in

Tibet, xxiii. 43, 43.

Brierly, O. W., Brief Geographical sketch of the Friendly Islands, with account of the visit of H.M. ship Mæander, Capt. Keppel, to Tonga-Tabu, xxii. 97. Friendly Islands, or Tonga Islands; 3 groups; position and number; southern, or Tongatabu group; central, or Haabai; northern, or Vavau; climate; storms; fertility and vegetable productions, 98—population, government; sacred dignitaries superior in rank to kings; King

George.

The Mæander makes Tongatabu; surf; native pilot, 99 — anchorage; landing; missionaries, 100 — schools visited, 100, 101—process of making Jappa cloth, 102—other arts; call on a chief; lali, or wooden drum, 103church; king's canoes, 105—visit the king; his appearance and dress; ceremonial connected with Kava preparation, 106, 108—the Prince of Tonga, 108—arrival of the royal fleet, 109 the casuarina tree; respect for women, 110; coral-reef; King George's visit to the ship; his composure and dignity, 110-111—another Kava party; visit to the queen, 112—Fijian visitors; royal autographs; the fung-fung, or nose-flute, 112, 113; the Fijians on the Mæander, 114 — extraordinary hairdressing.

General Remarks.—Kava drinking, 115—human sacrifices; finger sacrifices; children's disease; the Tabu; friendly disposition of the people, 116—King George's flag; proposed trade with New Zealand; smoking discouraged, 117—canoes; King George offers allegiance to England.

Sailing directions for entering Ton-

gatabu, 117.

Brieschap, Orange River, xxviiî. 155.
Brisbane, Sir T. Makdougall, Obit.
Notice, xxx. p. cii.

Town of, Queensland, xxviii.

1, 2.
River, East Australia, xxviii.
134.

Bristol Channel surveys, xxiv. p. lxxxix.; vol. xxv. p. c.; vol. xxvi. p. exciii.; vol. xxvii. p. exxi.; vol. xxviii. p. exliv.; vol. xxix. p. exl.; vol. xxx. p. exxix.

British North American exploring expedition, progress of, under Capt. John Palliser, xxx. 267 seqq.

BUDDHIST.

British Columbia, surveys, xxviii. p. cliii.; vol. xxix. p. cl.; vol. xxx. p. cxxxviii.

——— rule in Chusan, xxiii. 263.

Brockedon, W., Obit. Notice, xxv. p. lxxxiv.

Broke, Capt. Sir P., Obit. Notice, xxv. p. lxxxv.

Broken Hill, North Australia, xxviii. 23.

Brooke, Sir Arthur de Capell, Obit. Notice, xxix. p. cxxviii.

xxix. p. clxxviii.

Brother oath, East Africa, xxix. 89, 267. See also the like in Borneo, xxiii. 79.

Brown, Robert, the botanist, Obit.

Notice, xxix. p. cxv.

----, Mrs., of Grassdale, West Australia, extract of her journal regarding lead in that colony, xxii. 73.

Browne, Lord John, on Milo survey, xxii. 201, 202—his sailing directions

for Milo, 207.

Brun-Rollet's explorations on White Nile, xxv. p. cxx.; vol. xxvi. p. ccxii.

Brune, Brunai, River and State, Borneo, xxiii. 69, 71, 72, 81.

Brunel, I. K., Obit. Notice, xxx. p.

Brunner, T., his explorations in Middle Island, New Zealand, xxi. p. liv.—premium awarded to, ib.

BSHENNEF, in Bashan, with perfect houses remaining, also Greek inscrip-

tions, xxviii. 244.

BSHERREH, gorge of Lebanon below the Cedars, xxiv. 34.

Bua River, South Central Africa, xxvi. 112; xxx. 143.

Buamgungo, South Central Africa, xxx. 138.

Buccaneers, their passage across Darien, xxiii. 176; xxvii. 197—at Samana, xxiii. 265.

Buchanan River, West Australia, xxii. 2.

Buchanan-Hamilton, Dr. Francis, his labours and collections in the geography of Burma, xxvii. 55, 59, 63, 74, 88, 89, 91, 96.

Buckingham, James Silk, Obit. Notice, xxvi. p. clxxiii.—his travels in Bashan

alluded to, xxviii. 229.

Buckland, William, D.D., Obit. Notice, xxvii. p. ciii.

Buddhism in Chusan, xxiii. 259. Buddhism pagodas. See *Pagodas*.

BUDDHIST.

Buddhist remains in Cambodia, xxx. 179; 185 seqq.

Budduma language, Lake Chad, Vocabulary of, xxi. 214.

Budink, Chinese post, Amur, xxviii.

Buenapa volcano, San Salvador, xxviii. 357.

BUENAVENTURA, inclosed plain, San Salvador, *ib.* 358.

Buffalo Lake, British North America, xxii. 183.

- Pond (or Pound?), enclosure into which buffaloes are driven for slaughter in North American wilds, xxx. 278.

Bugh-I-Nu. See Bagh.

Bugis settlers in Borneo, xxiii. 84.

Buist, Dr., on the Aneroid for the purposes of Surveying in India, xxi. 42—liability of barometer to aecident, 43—mountain thermometer does not indicate less than 50 feet; sympiesometer rarely used; though very portable; thermometer least liable to change, but does change; Adie's remarks; Adie's altitude thermometers; the aneroid undervalued, 45—modifieations wanted; description of the instrument, 45-48 — results of comparison with barometric measurements, 48-51—Prof. Patton's remarks on the aneroid, 51—experiments in testing the instrument; favourable result, 53—eomparison with symplesometer as far as 4500 feet; sensibility to undulations of ground; table to facilitate calculations, with example, 54—Leslie's rule, 55—improvements suggested, 56, 57. See also vol. xxi. p. lxiii.

-, on the Physical Geography of the Red Sea, xxiv. 227—boundaries, ib.—gulf of Suez; gulf of Akaba; depth; tides, 228—phenomenon explaining the name of the sea, 229 islands; temperature, 230 — appearance and saltness of water; climate and winds, 231—evaporation, 232 eurrents; perplexing nature, 233 shores, 234—caves; supposed alteration of level of Isthmus of Suez, and analogous ease in India, 235—canal sehemes, 236—Wadi Araba; volcanoes, 237—Aden; note by Capt. Haines, 238.

-, his suggestions to Burton,

Bur Nur, lake at extreme north-east of Gobi Desert, xxviii. 414.

BURGOYNE.

BUKA'A (or *Cæle Syria*), xxiv. 30-32. BUKBARES, plundering tribe of South-West Persia, xxvii. 116.

Buko Hada Mountains, between the Onon and Argun, Russo-Mongol frontier, xxviii. 414.

BUKTERIMA River, affluent of the Irtish, xxviii. 379.

Bukukun, Russo-Mongol frontier, xxviii.

Buldir Koi, Balkan, xxiv. 77.

Bulgarian: monks, xxiv. 68—fair, 69 -horses, 71—dress, 72, 80—saddlery, ib.—invaders of Greece, xxvii. 13.

Bulgarians, character, xxiv. 88; 40. 54—emigration to Russia, 62—insurrection of, 64, 76—still as it were in order of battle, 64.

Bulgha-Koi, Balkan, xxiv. 66.

Bulkun River, Amur Land, xxviii. 380. Bull Fontein, Orange River, xxviii. 157, 168, 185.

Buller River, West Australia, xxii. 66,

Bullock's horns for earrying water in Peru (chifles), xxi. 105.

BULLPOUND River, Saskatchewan, British North America, xxii. 180, 190.

Bulut Tagh (sometimes called Bolor), Central Asia, xxiii. 5.

Bumburri Mountains, East Africa. xxviii. 210.

Bumm, Kerman, Persia, xxv. 41, 42. Bunar Hissar, Rumilia, xxiv. 42, 44,

Bunbury, port in West Australia, xxii.

Bund, ancient, on the Karun at Ahwaz in Khuzistan, xxvii. 110. See Bend.

Bunda, South Central Africa, xxiv. 267
269—poem in language of, 273, 274.
Bunder Delim, Persian Gulf, xxvii. 108.

-- Reig, Persian Gulf, near Bu-

shire, ib.
Bundi Khil, or Benderghil, on the Karun, Persia, xxvii. 110, 122, 129.

Bura Mountains, or Taita, East Africa,

XXX. 128, 130. See *Taita*. Burbukan River, Amur, xxviii. 399.

Burckhardt, cited as to Wadi Araba, xxiii. 167—his map of the environs of Damascus, and corrections thereof. See Porter, xxvi. 43 seqq.; his travels in Bashan, xxviii. 228, 233, 245.

Burdekin River, North Australia, xxviii.

Burghas, Rumilia, xxiv. 36, 47, 49.

Burghuz, and bridge, on the Litany, Syria, xxiv. 24.

Burgoyne, Sir J., acknowledges testi-

BURINGA.

monial to Corporal Church, Royal Sappers and Miners, xxvi. p. elxix.

Burica territory in the province of Chirigui, Isthmus of Panama, observations on, by J. H. Smith of Panama, xxiv. 256.

Buringa Valley, Amur Land, xxviii. 380. Buriya River, Amur, xxviii. 383, 388,

Burkene, east of Lake Nyanza, xxix. 284.

Burlak, Dobrudsha, xxvi. 206.

BURMA and its TRIBUTARY STATES, On Geography of, in illustration of a new map of those regions. By Capt. HENRY YULE, B.E., XXVII. 54. same referred to, ib. p. elx.

Burmese boats, xxiv. 92.

- Empire, greatest extension of, xxvii. 62—territory claimed by, 63. ——- people or Myamma, tribes of, xxvii. 63.

Burnai. See Brune.
Burnet River, North-East Australia, xxviii. 132.

BURNETT, J. C., Obit. Notice, XXV. p. lxxxv.

Burney, Col. Henry, his mission to Siam, xxvi. 71.

--, as resident at Ava, xxvii. 55, 56, 59, 84, 85.

Burns, Robert, his description of the native races of Borneo, among whom he lived and married, xxiii. 76—his murder, ib.—eited, 78—goes through rite of brother-bond with a Dyak chief; 79, 80, 85.

BURNT-WOOD portage, British North

America, xxii. 188.

Burton, Capt. Richard F., his journey to Mecca noticed, xxiii. p. cvii.; vol. xxiv. p. xciv.—proposed expedition to the Somali eoast, xxiv. p. xcviii.—his journey to Harar, xxv. p. xev.—and the disaster at Berbera, exix.—Founder's Medal assigned to, xxix. pp. viii. xcv. elxxix.—his journey with Speke to the Lake Regions of Equatorial Africa, xxviii. p. cevii.; vol. xxix. p. clxxix.; vol. xxx. p. clviii.

-, Journey to MEDINA, with route from YAMBU, xxiv. 208.

Letter to Secretary.—Original objects and intentions; passage across Arabia not practicable at the time; possibility of a supply of horses to India negatived; nature of the great eastern desert of Arabia; no rivers properly so ealled in Arabia, 209—slope of

BURTON.

Arabia; probably three distinct races in Arabia; outline of his journey.

Narrative.—Embarks at Suez, 210 —ships of the Red Sea; crowding and fighting on board, 211—name of the Red Sea, a new suggestion; Pharaoh's Gulf, and Arab traditions, 212—Tur and Tyre; Muwaylah, 213—alleged Roman remains; gold; Yambu, 214 suffering from heat; diet and regimen adopted; leave Yambu, 215—caravan and escort; the Samum (Simoom), 217 -El Hamra and El Wasitah, 218— Bedawin disturbanees, 219—weakness of the new Turkish system, 220—Jadaydah, or El Khayf, 221—Bir Abbas; Shuab el Haj, 222—reneounter with Bedawins; Shuhada, 223—the gardens of El Medina, 224—the city reached; itinerary from Yambu; preeautions in note-taking, 225.

Burton, Capt. Richard F., Journey from EL MEDINA to MECCA, down the DARB-EL-SHARKI, or eastern road (hitherto unvisited by Europeans) in September, 1853, xxv. 121—quit Medina; Ghadir, or the basin, 122—volcanic aspects; living in the caravan, 123 a day's journey; hills of Ghurab, 124'
—the Father of Mustachioes; simum, 125-Wadi el Rahnah; El Hijriyah, 126—sea of salt; town of El Suwayr-kiah; a feast, 127—El Sufayna; Baghdad earavan; El Birkat, 129—El Zaribah, 130—eeremony of El Ihram, or assumption of the pilgrim's garb; attack by robbers, 131—Wadi Laymun, 132—monuments there; Balm of Meeca, 133—Mecca seen; itinerary, 134—general character of the eountry; watershed of El Hejaz, 135—proposed trip to Harar, 136.

-, Narrative of a trip to Harar, xxv. 136—composition of party for exploration in Africa, and its assembly at Aden, 137—distribution; Burton sets out for Harar, 138 —Zayla, and detention there; two routes; that selected, 139—the caravan; the Abban, or Protector, and Lis privileges; Bedawins, 140—the Gudabarsi Somal, 141—elephants absent; the red fly; the Marar prairie; hindranee from feuds, 142 — Alpine scenery; taken for a Turk, 143enters Harar; dead reckoning, latitude and longitude, and estimate of height above sea; the city and elimate, 144 — population, manners and morals; notables, 145—language;

the Galla tribes adjoining; the Emir; eommeree, 146—eheapness; taxation, 147—visit to the eourt; return to Berbera, 148—the party of travellers reassembled at Berbera, 148—attacked at night; death of Lieut. Stroyan and wounds of the others, 149—remarks, 150.

Burton, Capt. Riehard F., and Captain J. H. Speke, a coasting voyage from Mombasa to the Pangani River; visit to Sultan Kimwéré; and progress of the expedition into the interior, xxviii. 188.

I. Coasting Voyage, &c. — Leave Zanzibar; Kokotoni; Pemba Island, 189—beauty of scenery; Fort Chakchak; fertility; the governor, 190—eivility of Hindu merchants; Mombasa, 192—mission-house, 193—road towards Kilimanjaro shut up, 194—route to Ukambani; wild people there from, 195—people of Mombasa; Wasir Island, 196—Tanga, 198—market with wild tribes of interior, 199—Pangani, 201.

II. Visit to Sultan Kimwéré of Usumbara.—Pangani, 202—alligators; commerce, 203—to Chogwé; baggage earried, 206—Tongwé, 207—bivouac, 209—the Pangani River; the Luangera River, 210—Bananas, 213—Fuga, 214—the Sultan Kimwéré; the dynasty, 215—Fuga described, 216—the rainy season, 217—return journey, 217-219—the fever, the map; overestimates of distances by the missionaries.

III. Progress into the Interior.— Leave Zanzibar, 220—Bagamoyo; Zungomero, 221—Goma Pass; fever; letter from Speke from Zungomero; remarks on the route, 222—latitudes fixed, 223—communication from Unyamyembe, 224—letter from Burton to Mr. Galton on equipment of the expedition, 224.

REGIONS of Central Equatorial AFRICA, with Notices of the Lunar Mountains, and the Sources of the White Nile; being the results of an Expedition undertaken, under the patronage of Her Majesty's Government and the Royal Geographical Society, in the years 1857-59; vol. xxix. (the whole). Preface. I. Early Discovery, 1—the

Mombasa missionaries, 2 - Publications on the Lakes, by Mr. Cooley and others, 3.

BURTON.

II. Capt. Burton's project, 4—instructions from the Royal Geographical Society; memoranda on instruments, 7—preparations and preliminaries, 8-11.

III. Zanzibar, 11—death of Sayyid Said, Sultan of Maskat and Zanzibar; illness of Col. Hamerton, Resident at Zanzibar, 12—obliged to give up Mr. Rebmann's eompany; Burton and Speke both attacked by fever, 13.

IV. Rainy season at Zanzibar, 13

IV. Rainy season at Zanzibar, 13—engagement of attendants, &e.; heavy expenses, 14—death of Col. Hamerton, 15—his character and kindness, 16.

V. Personnel of the expedition, 16; and abstract of their proceedings on the journey

VI. Return to Zanzibar, and state of things there, 18—departure to Aden, 19—remarks on narrative; distance travelled over new ground, 20—expenses; observations and collections; the map, 21.

NARRATIVE. Chap. I. General Remarks. Eastern Intertropical Africa South of the Equator. Preeeding theories of formation of Central Africa, 21—Sir R. Murchison's view, and its confirmation, 23—general description of the conformation of the regions which are the subject of the narrative, 24—five geographical regions to be traversed, 27—nature of tracks, 28—water-partings, 29.

Chap. II. The Coast of Zanzibar, the Mrima, and its Population. Names at different periods, 30 — maps and errors, 31 — roadsteads, tides, and eurrents, 32—description of the Mrima eoast; vegetation, 35—elimate, 36—endemics; fevers, 39—other diseases, 42—rivers; settlements, 45—raees, 48—legendary history, 50—half-caste Arabs, 53—eoast elans, 55—ehicfs, 56—porters, 58.

Chap. III. The First Region; the Valleys of the Kingani and the Mgeta Rivers. Character of these fluviatile valleys, 59—climate and diseases, 61—start from Kaolé opposite Zanzibar, 62—vegetation, 63—Nzasa, 64—the Kingani, 65—Kiranga-Ranga, 66—graves, heathen and Moslem; game, 67—the Mgeta River, 71—Enter Khuta, 72—constant rain, 37—Duthumi, 74—Usagara mountains, animals, 75—Malarious region of Zungomero, 76—caravan station, 78—

nature and eost of supplies, 79—Buccaneering violence, 80 — Usagara mountains, 81—delightful change in leaving the low, wet eountry, 82. Ethnology: the Wazaramo, and their peculiarities, 83—features, hair-dressing, Albinoes, dress, weapons, 83-86—habitations, 86—character, 87—chiefs, 88—brother oath, 89—Adá, or custom, 90—customs in regard to ehildren, 90—marriage and divorce, 92—industry, 93—murder of M. Maizan, 93-96—the Wakhutu, 96—the Wadoe, 99—the Wazegura, 100.

Chap. IV. The Second Region; the Mountains of Usagara in the East African Ghauts. The mountain region, 101—surface geology, 101 flowers and fruit, 103—water, 104—climate, 105—diseases, 106—Northern Route to Ugogi, 107—Tamarind hills; Rufuta river, 108—Muhama, 110 — Makata, 111 — contrasts of scenery, 112 — River Mukondokwa, 113—the Tsetsé fly; Rumuma, 116—water-melons and the like, 117—the Rubeho mountains, 118—the Tirikeza or afternoon march; Inenge, 119— Pass over the Rubeho; counterslope of the Usagara, 120—Ugogi, the halfway to Unyanyambe, 123. Southern Route to Ugogi, called Kiringawana, 124 – the Mabruki Pass; Ruhembi river, 125—Kisanga; the chief called Kiringawana, 126 — Maroro, 127 — Rudi, 128—Ugogi, 129—the Wasa-gara, or people of these mountains, 130—their hairdressing, clothing, &c., ornaments, the wire coil, 132—the Tembé or hut, 133—vermin, 134—interiors, 136—the Wahehe, 137.

Chap. V. The Third Region; the Plateau of Marenga Mk'hali, Ugogo,

Chap. V. The Third Region; the Plateau of Marenga Mk'hali, Ugogo, and Mgunda Mk hali. Flat tableland, 139—Ugogo, its arid elimate, 140—fever, 142—the Baobab-tree, 142—frankineense; Euphorbiæ, 143—large animals and birds, 143-145—three main roads aeross the desert of Marenga Mk'hali, 145—Ziwa, 146-148—Kuhonga, or exactions of Black Mail, 148—provisions procurable, 150—Kifukuro and its Sultan, 150—Kanyenye district, 151—to Khokho, 152-154—evidences of igneous action, 153. Great desert of Mgunda Mk'hali, 155—aspect, surface, water, 156—the Wagogo, 159—language, 161—the Wahumba, 164.

Chap. VI. The Fourth Region; the

BURTON.

hilly Table land of Unyamwezi and Eastern Uvinza. Extent and altitude, 165—the name of Unyamwezi and many errors about it, 166—tradition of a great empire, 168 — provinces, 169—character of country; pleasing evening aspect, 170 - climate and seasons, 171—fevers, 175—fauna, the Tsetsé, 177—Kazeh, or Ihara, in Unyamyembe, 179—the meeting-place of the caravans here; Arab merchants residing here, 181—their houses, 182. Routes to Lake Tanganyika: Northern, Yombo, 186—Kirira, 187—Msene, the Bunder or rendezvous of trade and coast Arabs in Western Unyamwezi, 188—productions, 189—intoxication, 190 — Sorora; Usagozi, 191 — Malagarazi river, 193. Southern, or Direct Road, 194—Races; the Wakimbu, 195—the Wanyamwezi, 196—dress, weapons, &c., ceremonies, 198—peculiarities as regards unmarried girls; disposal of dead, 199—domestic interiors, 200—Iwanza, or separate public halls for the sever 201—alay public halls for the sexes, 201—claychewing, 202 — commerce; government, 203—cruel practices on illness of a chief, 204.

Chap. VII. The Fifth Region; the Valley of Uvinza and Ujiji, upon the Tanganyika Lake, 205—fertility and insalubrity, 206 — seasons and rain, 207—many lines of road; the southern shut up by the Wavinza. Jambeho, or trunk line, 207—the Malagarazi road, 208—ferry boats; Mpcte, 209— Jambeho, 210—Ruguvu, or Luguvu river, 212—Ukaranga, on the borders of Tanganyika, 213—first view of the lake; Ruche river, 214 — Ukaranga, the Mucaranga of Portuguese writers, 215 — Ujiji, recapitulation of the marches, 217—Ujiji, 218 — fertility; the plantain, 219—palm-oil; bazaar, supplies; fauna, 220 — slave trade, 221—Tribes: the Wajiji, 221—tattooing, clothing, 222—mode of taking tobacco, 223—manners and morals, 224 — the Sultan; exorbitant exactions, 225—prices, 226—desertion of porters, 228—the Wakaranga; the Wavinza; Watuta, 229 — Wabuha, and Wahha, 230, 231.

Chap. VIII. The Tanganyika Lake. Previous rumours and confusions about the lakes of this part of Africa, 231—ignorance and flippancy of some reviewers, 232—names ascribed: Zembre, Maravi, Hemosura, &c., 233—

first appearance of the real name, Tanganyika; its meaning, 234—estimated dimensions; altitude, 235 freshness of the water, 236—affluents, whether it may be without exit, 237 —winds, storms, and alleged tides, 238 — navigation, canoes, tracks followed, 240—difficulties of a start; fishing, 242 — fish, 243 — shellfish; voyage to Insigazi and Island Kiriva, 244 — Kasenge, 246 — voyage northward: Kigari, 247—Wafanya, 248— Island of Ubwari, 249—Muriyumba 250—the Wabembé, anthropophagi; Uvira, 251—refusal of crews to go to the extremity of the lake; people and trade of Uvira, 252. Periplus of the lake, from information, 253—Urundi, kingdom and people; Uzige, 254— Uvira; Ubembe; Ugoma; Uguliha, 255—route of trade to Uruwwa nine long stages from the lake in a southwesterly direction, this being the extreme point of trade from Zanzibar, 255—the Wathembwe and Wakatete, 256-Marungu; distance to Usenda of the Kazembe sixteen stages; people of Marungu, 258 — Ufipa; hembe, 259—Watongwé. Chap. IX. Usukuma, and

Chap. IX. Usukuma, and the Nyanza or Ukerewe Lake. Explanation of Usukuma applied to the region north of Unyamwezi, 259—Captain Speke's journey from Kazeh, 260 climate, 261—iron; vegetable products; eattle, 262; wild animals; route from Unyamyembe, 263—Unyambewa, 264—Umanda, 265—Superstitions, 266—Urima, 269—Mwanza and the Nyanza lake, 270—Mahayya, King of Mwanza; the lake, 271 eonfusions with Nyassa, &c., 272—excellence of the water, 274—islands or peninsulas of Mazita and Ukerewe, Arab traders, 275 — probability of Nyanza's feeding the Nile, 276, 277 tribes about Nýanza; Wahinda, 277.

Chap. X. The Northern kingdoms: Karagwah, Uganda, and Unyoro.— This from oral information only, 279 -superiority of the races in those kingdoms, 280 - Uganda and the route thither; Usui, 281—kingdom of Karagwah, 282—speculations as to Lunar Mountains, &c., 283—elimate, enltivation, pombe (beer), plaintainwine, wild coffee, &c., 285—people, two orders, Waliuma and Wanyambo, female corpulence, dress, weapons, &c., 286—Armanika, the Sultan, 287

BURTON.

—government; iron, 288—the pastoral Watosi, 288 — the Kitangure river, 289—Uganda and its capital, Kibuga, 289, 290 — Suna, the late powerful chief, 291—his names, 293; and domestic policy; chief officers; punishments, 294—encouragement to Arab merchants; narrative of one Snay bin Amir; the people, 296 products; beyond Uganda the Kivira river, and Usoga; Unyoro dependent, 290—independent, 297—the Wanyoro people.

Chap. XI. The Southern Provinces: Ubena, U'ungu, and K'hokoro. Utakama, or Southern Unyamwezi, 298 -routes from Kazeh; route to *Ubena*; Nguru, 299—Unyangwira; Usenga, and Usanga; Kiwere, 300 — tribes, the Wakimbu, Wahehe, and Warori, 301—Ubena, 302—Route to U'ungu, 304—the Wa'ungu; Routes to K'ho-koro, 305—the Lake Rukwa, or Ikwa; the Rwaha river, 306, or Rufiji—first

accounts of it; errors, 307. Chap. XII. Sketch of the Ethnology and Physiology, the Dress and Ornaments, of the various Tribes extending from the Coast of Zanzibar into Central Intertropical Africa. Great South African family, 308—Subdivision into Western, Eastern, and Southern; the Eastern or Zangian races, 309—characteristics and varieties; want of fecundity, 311—superior and inferior tribes, 312 — cannibalism; physique and countenance, 313 — women; eranium, 314—skeleton, hair, colour, 315—tattooing, 316—effluvium, 317 hair, beard, &c., 318—hairdressing, 319—features in detail, 320—longevity, 323—voice, dress, ornamentation, 325—wire coils, 326.

Chap. XIII. Notes of the Character and Religion of the East Africans; their Slavery, Government, and Polity. Want of capacity for improvement, 328—open selfishness, 329—inhospitality; greed, and improvidence, 330 - falsehood; stubbornness, 331 vengefulness, inhumanity, rage, tears, 332—eombativeness and caution; destructiveness, 333 — marriage and relations of sexes, little family affection, 334—want of constructiveness; voracity; drinking bouts, 335—rudeness, 336—euriosity, intellect, characteristics of different tribes, 337—to be dealt with as foes, 338—degradation caused by slave trade; fetishism;

supposed evidences of native belief in immortality, 341—witchcraft, 342 divination and rainmaking, 344—exorcism of disease, 345—Devil's trees; other spells, 346—phantasmata; black magic, 347—ordeals; the Myanga, or Rain-doctor, 348—circumcision, 350—slavery and slave trade, 350-358—government, 358 the despotic; the semi-monarchical, 359—legitimacy, 360—succession by sister's son exceptional; punishments;

revenue, 361.

Chap. XIV. Village Life in East Africa. Comfortable condition of the African peasant, 362—daily habit; food the great matter, 363—milk, 365 butter, 366 — oil; pombé, or beer; honey, 368—dances, 369—music, 370 —instruments; the zézé, or banjo; the kinanda, or dulcimer, 371—wind instruments; the drum, 372—drinking bouts; the chase, 373—elephants; weapons, 376—spear; javelin, 377—the bow; the arrow; the knobkerry, or mace, 379—the dagger, 380—the battleaxe; shields; fire-arms; swords, 381—the arts; weaving; iron, 382 copper, 383—pottery; gourd pottery, 384—pipe-heads; baskets and mats, 385—basts and fibres, 386—diseases, 387—medicine, 389—the Mganga, or medicine-man.

Chap. XV. Cattle, Cultivation, and Caravans in East Africa. Herds on the Pangani, 390 — and Usagara mountains, 391—customs; goats, 392; asses; the horse cannot be acclimatised, 394—poultry; ducks, 395—pigeons; dogs; agriculture, 396 cereals; oilseeds, 399 — earth-nuts, 400 — pulses; manioc, 401 — sundry vegetables, 402 - mushrooms, 403 red pepper, 403 — cotton,

tobacco.

Travelling in East Africa, 405 caravans, 407—porterage; the march, 413—the porters, 415—various accommodations, 417—the afternoon march,

419—rate of marching, 420.

Chap. XVI. Commerce, Imports and Exports. — Imports, 421—"domestics," or unbleached sheeting; Imports indigo-dyed cotton, 423—bead trade; the measures, 424 — and kinds of beads, 425-7—brass wires, 427—minor items, 428—coloured cloths; woollens, 429—cotton cloths; silk and cotton mixed, 431—silks, 432—minor and local items of importation; staples of

BUSSORA.

the internal trade, 434; Salt. Exports - Copal, 435—the tree; the gum, 436° —the true article is fossil, being the product of extinct forests, which has been bitumenized under the soil, 437 details of quality and locality, 437-440 —mode of digging, 440—ivory, 441 three qualities recognised at Zanzibar, 443 — Hippopotamus teeth, 444 — Rhinoceros horns, 445—black cattle; corn measures used by Banyans at Zanzibar, 446 — timber, 447 — some vegetable products; orchella, 448 cowries; minor sundries, 449 — conclusion.

Itineraries, with Latitudes, Longitudes, and Altitudes. — Zanzibar to Ujiji, 450—Ujiji back to Unyanyembe, 452—Kazelı to Lake Nyanza, 453— Ugogi to Zungomero; Zungomero to Konduchi, on sea coast, 454.

Burzeh, near Damascus, xxvi. 46. Burzu, east of Shiraz, xxvii. 152.

Busan, ancient city in perfect preservation, in Bashan, xxviii. 244.

Bushire to Shiraz, Notes on Routes from. By Lieut.-Gen. W. Monteith, xxvii. 108.

-, Details regarding, ib. 114. Bush el Hariri, Bashan, xxviii. 260. Busrah, Bostra, Bozrah, in Hauran, xxvi. 50, 51. See Bozrah.

, also *Basrah* is spelt thus, xxviii. 249, 251. See *Basrah*.

Bushman River, Natal, xxii. 138—xxx.

Bushmanland, north of Cape Colony, xxviii. 163, 168, 169, 173, 182, 184.

Bushmen in South Africa; on the Zouga, xxi. 23—in Damara Land, xxii. 148, 150, 156—in the Kalahari Desert and about Lake Ngami, 164; xxv. 93, 101—their difference from the Bakalahari under like circumstances, xxvii. 369; xxviii. 153, 157,

158, 160, 163, 166, 167, 175.

Bussora (Basrah) to Aleppo, Diary of a JOURNEY with SIR EYRE COOTE in 1780(?)* from the original MS. communicated by Sir Woodbine Parish, xxx. 198. Set out from Xebire (i.e. Zobair, near Basrah); ruins; Bussora, 199—old Balsora and its remains; desert cultivation; Jerboa rats, 200 truffles; Muntifick Arabs, 201—vast number of animals with them; Beni-Khalid, 202—fat-tailed sheep; the Khalid perhaps Chaldeans? 203—

* See note to this on the list of Papers at the beginning.

BUTAKOFF.

great flight of quails; ruined building and reservoir; Muntificks and Ghizzias, 204 – dry river-bed ealled Abhicate, or Water of Life (Ab·i-Haiyat?) 205 — Thamiel; fine green valleys called Hulet Hauran or Sources of Hauran, 206—ostrich, 207—remarkable remains of antiquity near Taiba; Taiba, 208—Palmyra not accessible; other ancient cities reported, 209ruins of El-Koom; salt lake, and ruins of many towns; great mounds; Hagla, 210—more mounds and ruins; town of Suppine; fine view of Aleppo; account of the town; outrages of the Syuds, 211—prosperity of the French.

BUTAKOFF, Comm. ALEXEY, of the Russian Imperial Navy; Survey of the Sea of Aral, xxiii. 93.

Letter to Sir R. Murchison.

First steps to a survey, 94 — schooner transported in pieces to the Syr-Darya or Jaxartes; survey of the northern shore by Akisheff and Goloff in 1848 — the author appointed to make a complete exploration; construction and transport of another schooner; results of first voyage; discovery of the Czar's islands; the antilopes on them; winter at mouth of the Syr, 95 — tiger hunt; frequency of these animals; survey proceedings of 1849; fitness of the Russian soldier and sailor for such work; astronomical results, and discrepancy, 96—details of the survey, 97 — collections of geological and botanieal specimens.

Character of the coasts, 98—water of the sea brackish; use of it for two weeks caused bad diarrhea; the sea divided into Little and Great; the former freezes over, the latter at the margin; said to have once been frozen all over; the level sinking; greatest depth, 37 fathoms, 99—nature of bottom; the two large rivers; their mouths much blocked; lakes and bogs with great reeds at mouth of the Syr; fish of the Aral and the Syr, delta of the Syr; the Kuvan, a branch barred by the Kirghiz; the Syr moves northward, 100 —climate; strong winds; astronomical determinations, 101.

Butkha, Chinese post in Manchuria, xxviii. 409.

Butresk, Balkan, xxiv. 76. Butter Tree of Central Africa, xxiii. 121.

CADELL.

Buxton, Sir E. N., Obit. Notice, xxix p. exxxiv.

Buys Vley, near Orange River, xxviii. 156.

Buyuk Derbend, near Constantinople, xxiv. 36, 37.

- Chekmeji, near Constantinople, ib. 37.

- Bunurdere River (Tearus), Rumilia, ib. 45.

- Chenka, Balkan, ib. 53, 54, 58,

- Aladin, Bulgaria, ib. 80, 82.

BWENI, mouth of Pangani River, Zanzibar Coast, xxviii. 202, 204. See

Byam Martin Channel, Arctic Sea, xxvi.

Bynoe Range, North Australia, xxviii.

Byron Bay, Vietoria Land, Aretic Sea, xxii. 94.

Byron's Bay, Hawaii, xxv. 191.

C.

CABABURIS River, tributary of Rio Negro, xxiii. 213.

Cabandangollo, South Central Africa, xxx. 143.

Cabanga, South-East Africa, xxx. 144, 145.

Cabango, Cobango, in Lunda country, South Central Africa; Livingstone's most northerly point, xxv. 236, 237; xxvi. 81, 128, 129; xxvii. 349, 350.

Cabita, South Central Africa, xxiv. 267,

Cabuqueno, Rio Negro, xxiii. 214.

CACAGUATIQUE Volcano, San Salvador, xxviii. 350 seqq.

Cacao, Punta, Samana, San Domingo, xxiii. 271.

Cachabi River, Equador, xxx. 69. Câche Island, Arctic Sea, xxv. 254.

Cachinal de la Costa, Atacama, xxv. 159.

CACONDA, South Central Africa, xxx. 162.

CACULAVAR, or Caculavale River, South-

West Africa, xxx. 161.
CADELL, Capt. Thomas, on the Navigation of the Murray River, xxv. 177exploring descent in canvas boat, 178—difficulties of the mouth; tides quite irregular; curious whale instinct, 179—Lake Alexandrina; influence of tributaries; floods, 180—vertical rise;

CAEMDO.

timbered banks, 181—winds; medal and bonus awarded to Capt. Cadell, 182—new stcamers.

CAEMDO, South Central Africa, XXX. 161.

Caffres, Remarks on, xxvii. 367, 368; xxix. 308, 310, 338; xxx. 248, 249.

Cahava, South Central Africa, xxiv. 267-269.

Cahinga, South Central Africa, xxx.

CAIRNCROSS Island, North Australia, xxviii. 6.

CAIRO to JERUSALEM, Narrative of a Journey from, viâ Mount Sinai. By

Dr. G. A. Wallin, xxv. 260. Calabash Tree in East Africa, xxix. 142. See Baobab.

Calavas, North-West Mexico, xxx. 36.

Caldera, Port of Copiapo, in Atacama, xxiii. 196 — description, 203, 204 xxv. 158, 160.

Caledonia River, Darien, xxiii. 184; xxvii. 192-194, 202-204.

— Bay and Harbour, xxiii. 175, 178-181; xxvii. 191, 195, 197, 198,

201, 202.

Calf-Ice, xxiii. 150, 151. See Calving. California, Currents off, xxiii. 232.

Calirrhoe Springs, Dead Sea, xxvi. 67, 68.

Calita, Mazatlan, Mexico, xxx. 8.

Calivia, Ætolia, xxvii. 7.

—, Bay of, eooled by Antarctic current, xxiii. 223.

CALLING River, British North America,

xxii. 179, 180.

Callium (Carpenitza), Greece, xxvii. 13. CALLUMBANGE River, South Central Africa, xxx. 142.

Calneh of Scripture, Niffar, in Babylonia, supposed by Rawlinson to be,

xxvi. 136. Calver's Chart of the Tyne, xxi. p.

lxv.; vol. xxvi. p. cxciii.

- Surveys of Humber and Tees, xxiv. p. xxxix. - revision of East Coast Charts, &c., xxvii. p. cxxi. -soundings of harbours on West Coast, &c., xxviii. p. exliv.; vol. XXX. D. CXXX.

Calving of Icebergs, xxiii. 152.

Camalotal Lake, San Salvador, xxviii.

CAMANCHES Indians, North-West Mexico, their savage character, xxx. 30,

CAMPBELL.

CAMANDU of Marco Polo, Attempts to identify, xxv. 47, 56.

Camassia Esculenta), favourite food of Vaneouver Indians, xxvii. 289.

Cambecis, xxiv. 267. See Zambesi. Cambodia, Camboja, Kambojah, xxvi. 72, 73; xxvii. 87, 95; xxx. p. clxxiii. - and Siam, Travels in. By D.

O. King, xxx. 177.

-, Notes on the Antiquities, NATURAL HISTORY, &c., of. By JAMES Campbell, Surgeon R.N., XXX. 182.

– River, or *Mekong*, q. v. Cambridge Gulf, North Australia, xxiii. 141.

— Bay, Aretic Sea, xxii. 84, 94; xxv. 200.

Camden Bay, Arctic America, xxv. 202. Camels; suggested for Australian exploration, xxiii. p. exxix. — black —, 121—pace of, estimated, xxiv. 215—average rate of travelling when laden, xxiv. 339 — notes on, in the Descrt (Wallin), xxv. 267 seqq.—load of, xxvi. 55—cost of earriage by, xxx. 260.

Camimbe, South Central Africa, xxx. 140, 141, 142.

Camina, town and district of Southern Peru, xxi. 104, 117; xxvi. 229.

Camossango, South Central Africa, xxx. 142.

Camp, Ancient, on Vaneouver Island, . xxvii. 281

CAMPASHY River, Murray, Australia, xxv. 177.

CAMPBELL, JAMES, Surgeon R.N., Notes on the Antiquities, Natural History, &c., of CAMBODIA, from MSS. of the late E. F. J. Forrest, and information of Rev. Dr. House, xxx. 182—old and new divisions; the Mekong; Vintamphu, 183—Kangkau, formerly Ponteamas and Potaimat; Upper Cambodia; Saigon, 184—the great lake Talae Sap, or Bienho; extensive fishery, 185—the Nakon Wat Temples described; huge blocks of stone used, 188—the Nakon Hluang, 191—other eitics reported to exist, 193 — date ascribed to these remains, 194—tradi-Natural History, 195 — the tions. elephant; mode of killing, 196 poisons; rhinoceros, 197 — deer and wild cattle; croeodiles; an article of export, 198.

- of Finab's Darien enterprise, and expulsion by the Spaniards,

xxiii. 183.

CAMPBELL.

Campbell, Allan, at Copiapo, xxiii. 204. -, Lieut.-Col. Neil, Obit. Notice, xxvii. p. cviii.

- Town, Otago, xxviii. 303, 304,

326.

Camphor, Malay, preferred by Chinese, found in Borneo, xxiii. 75—oil of, ib. —tree in Chusan, xxiii. 250.

Cana of Galilee, xxiv. 8.

Cana Gold Mines, Darien, xxiii. 180, 190.

Canada, Geological Survey of, xxv. p. exxv.; vol. xxviii. p. elxxvii.

Canal, Schemes for, across Isthmus of Darien, and subjects connected therewith, see Oersted, xxi. 96—Fitzroy, xxiii. 171—Friend, xxiii. 191—Pre-VOST, XXIV. 249—KELLEY, XXVI. 174— GISBORNE, XXVII. 191.

— between Mediterranean and Red Sea, Remarks on, xxiv. 235, 236.

— de Haro (or Arro), Vancouver

Island, xxiv. 245; xxvii. 269.

Canals, projected, from Danube to Kustengé, xxvi. 210 — of Canada, xxii. 175—in Chusan, xxiii. 247—of Babylonia, xxvi. 132 seqq.—sacred, in Fiji, xxvii. 234—in Cambodia, xxx. 183.

Cancino, Colonel, passes the Isthmus of Darien, carrying a ship's boat with him, xxiii. 195.

CANDELARIA, Mouth of Atrato River, Darien, xxiii. 192.

Candili, Acarnania, xxvii. 5.

Canelos, Ecuador, xxx. 71 seqq. Canes, Export of, from Borneo, xxiii.

CANGALLA River, South Central Africa, xxx. 140.

CANGOMBA, South Central Africa, ib. 152.

River, Walfisch Bay, xxii. CANNA 145.

CANNIBALS and Cannibalism, in East Africa, xxix. 99, 250, 313—in Central Africa, xxi. 198-in Fiji and other Polynesian islands, xxi. p. lxxxii. 230, 233, 234; xxvii. 238, 252, 253 in Borneo, xxi. pp. lxxxiii. 78 — in Tibet, alleged, xxiii. 7.

Canning, Earl, xxviii. p. lxxxix.

Canoes, of Tonga Islands, xxii. 98 double, 104, 109, 117—of the Yuna River, San Domingo, xxiii. 273—of the Amur, xxviii. 396-of Lake Tanganyika, xxix. 239.

Caoutchouc, in East Africa, xxix. 36,

CAPE Town, xxii. 141.

CAPE.

Cape Abernethy, Baffin's Bay, xxiii. 139.

— Adair, Davis Straits, xxiii. 144.

- Akroteri, Milo, Grecian Archipelago, xxii. 202.

- Albert, Smith's Sound, Arctic Sea,

xxiii. 141.

- Alexander, Greenland, xxiii. 140; xxvi. 7, 14.

- Ammonia, Kimolo, Grecian Archipelago, xxii. 205.

— Athol, Baffin's Bay, xxxiii. 139.

— Austin, Arctic Sea, xxvi. 28. — Bathurst, Arctic Sea, xxv. 198,

203. – Beaufort, Arctic America, xxvii.

322. - Bird, Bellot Straits, Arctic Sea,

xxiii. 127. Biscayo, Gulf Stream at, xxvii. 207.

- Bombarda, Milo, xxii. 209.

– Bonilla, Vancouver Island, xxvii. 285.

- Bowling Green, North-East Australia, xxviii. 5.

- Cabron, San Domingo, xxiii. 264. — Carrasco, Vancouver Island, xxvii. 285.

- Chidathe, Milo, xxii. 205, 207. — Chukotsky, Behring Strait, xxv.

196. - Classet, Washington Territory, xxvii. 319.

- Cleveland, North-East Australia xxviii. 5.

—— Colvile, Arctic America, xxv. 253.

—— Cornwall, xxx. p. cxxix. — Cynosura, Greece, xxvii. 29.

— Delgado, South-East Africa, xxx. 146.

– Del Isleo, Bahamas, xxvi. 198, 200.

- Direction, North Australia, xxviii.

- Dudley Digges, Baffin's Bay, xxiii. 138; xxvi. 16.

- Emimeh, Balkan extremity, xxiv.

- Farewell, Greenland; ice accumulated about, xxvi. 36; xxviii. 277.

- Flattery, Vancouver Island, xxvii.

– Flinders, Arctic Sea, xxii. 84.

— Flinders, North Australia, xxviii. 6. — Ford, North Australia, xxviii. 10.

—— Franklin, Arctic Sea, xxii. 84.

— Fullarton, Arctic America, xxv. 255.

– Gaidin, Amur, xxviii. 386.

CAPE.

Cape of Good Hope; Geographical progress at, xxviii. p. eciv.—eoast surveys, xxvi. p. xev.; vol. xxvii. p. exxv.; vol. xxix. p. cxliv.; vol. xxx. p. CXXXVI.

- Grafton, North-East Australia, xxviii. 6.

— Guardafui, xxv. 140.

— Hamilton, Aretie Sea, xxii. 78.

— Hay, North Australia, xxviii. 10.

—— Hearne, Aretie America, xxii. 80.

— Hodgkin, Bellot Straits, xxiii. 127. —— Horn, high winter temperature at, xxvii. 215.

-, Iey, xxv. 205.

- Isabella, Sir T. Smith's Sound, xxvi. 11.

- Isende Aral, in Sea of Aral, xxiii. 97.

— Jefferson, Greenland, xxviii. 286.

— John Barrow, Greenland, ib.

— Kalamaria, Milo, xxii. 207, 209, 212, 226.

— Kalamos, Milo, xxii. 203.

— Kamenoi, Sea of Azof, xxvii. 147.

— Kiten, Sea of Azof, xxvii. 145.

— Knob, West Australia, xxii. 47.

- Krio, Crete, raised beach at, xxii. 227.

- Krusenstern, Arctic America, xxii. 80, 83, 95.

- Kum Suat, Sea of Aral, xxiii. 97.

– Lady Franklin, Aretic Sea, xxii. 77, 79.

- Lady Pelly, Arctie Sea, xxv. 248.

Laguna, Bahamas, xxvi. 200. - Legrand, West Australia, xxii. 22.

- Leeuwin, North Australia, xxviii.

138. - Madge, Vaneouver Island, xxvii. 276.

— Mauro, Milo, xxii. 212.

— Marzo, Darien, xxvi. 178, 179.

- Melville, North-East Australia, xxviii. 6.

— Parker, Baffin's Bay, xxiii. 143.

– Parry, Aretie Sea, xxiii. 140; xxv. 198.

Pausa, Amur mouth, xxviii. 390.

Peel, Victoria Land, xxii. 94.

— Phiriplaka, Milo, xxii. 203.

— Polloniæ, Milo, *ib*. 204, 226. — Porter, Aretic Sea, xxv. 253.

— Pronge, Amur mouth, xxviii. 389.

— Providence, Arctic Sea, xxv. 199.

- Psali Partehel, Milo, xxii. 202. - Raphael, Samana, San Domingo,

xxiii. 270. - Rema, Milo, xxii. 204.

CARNARVON.

Cape Riche, South-West Australia, xxii.

— Sabine, Aretic Sea, xxvi. 10,

—— Samana, San Domingo, xxiii. 264. —— St. Cyril, Amur, xxviii. 384, 386.

— Santa Maria, Bahamas, xxvi. 194,

196, 199. — Ścott, Vancouver Island, xxvii. 269,

295. - Seppings, North Somerset, Aretic Sea, xxiii. 123, 124.

- Stiletto, Milo, xxii. 203.

— Sverbeef, Amur, xxviii. 384.

— Tebak, Amur mouth, xxviii. 389. — Tube Kara, Sea of Aral, xxiii. 97.

— Upstart, North Australia, xxviii. 5.

— Uzun Kair, Aral, xxiii. 97.

- Vani, Milo, xxii. 202, 206, 207,

226. - Verde, Long Island, Bahamas, xxvi.

197. - Victoria Adelaide, Victoria Land,

xxii. 88. - Walker, Arctic Sea, xxiii. 128;

xxvi. 30, 31.

- Walsingham, Davis Straits, xxiii. 145; xxvi. 35.

– Wessel, North Australia, xxviii. 138. — Yangtsé, China, xxviii. 293.

— York, Baffin's Bay, xxiii. 137, 138 ; xxvi. 1, 16.

- Zigraro, Anti-Milo, Grecian Archipelago, xxii. 207.

Capernaum, xxiv. 22.

Capitation Tax on Infidels in Arabia (Jaziyat misprinted Tiziyat), xxiv. 218.

CARABAYA, Peak of, South Peru, xxi. 125.

- Province, South Peru, xxv. 157, 158.

Carat of Jewellers, origin, xxix. 285.

Caravan, in Central Arabia, xxiv. 197; Mecea Pilgrim, xxiv. 206; xxv. 12 seqq., 283; eustoms of in East Africa, $i\bar{b}$. 405 seqq.

- Trade with China, Russian. See Parkes, xxiv. 306.

Carbuccia, General, Obit. Notice, xxv.

p. xeiii.

CARLESS, Capt., on Winds in the Red Sea, xxiv. 232.

CARLTON, Fort, or — House, British North America, xxii. 182; xxx. 267, 276, 277, 278, 280, 282.

CARMEL, Mount, xxiv. 9.

---, in South of Judea (El Kurmel), xxvi. 59.

Carnaryon, Earl of, aeknowledges Capt. Palliser's medal, xxix. p. xcix.

CAROLINA.

Carolina, Darien, xxiii. 180.

CARR, Comm., Washington, Obit. Notice, xxvi. p. clxxiv.

CARRALUP Sheep Station, West Australia, xxii. 54.

CARRIZAL, North-west Mexico, xxx. 10. Carter, Dr., of Bombay, quoted, xxiv. 213—proposed for a mission to Somali Land, xxv. 136—his geographical memoir on South-east Arabia noticed, xxii. pp. exii., exiii.

Carteret cited on Pacific currents,

xxiii. 226.

Carved Cave Spring (from rude native carvings and impressions), West Australia, xxvi. 252.

Carvoeiro, Rio Negro, xxiii. 214.

Caryæ, Laconia, On the site of, xxvii.

44, 46, 49.

Casai, Kasai, Kasye, or Loké, a large river crossed by Livingstone in the Lunda country, running north, and, as he believed, to the Congo, xxv. 224, 226, 235, 236; xxvi. 81, 121-123; xxvii. 351, 352. [N.B. Macqueen's maps in vols. xxvi. and xxx. identify this river with the Cassabe (q. v.); in the former he carries it towards Lake Tanganyika, in the latter to the Congo.]

Cascade, Mount, Rocky Mountains, xxx.

297.

Cascatlan Lake, San Salvador, xxviii. 352.

Cashan Mountains, or Magaliesberg, Transvaal, xxiv. 288.

Caspian and Black Seas, Abich on

merged area of, xxiii. p. lxxxvii.

- and Sea of Azov, question of navigable communication between,

XXX. p. clxxxi.

Cassabe River, South Central Africa,
xxvi. 122-125, 128; xxx. 150, 151.

See Casai.

Cassais, "a great river," South Central Africa, whether the same as Casai is not quite clear, xxvi. 122.

Cassange, Angola, xxv. 225, 226, 231, 235, 236; xxvi. 78, 127; xxvii. 349,

352; xxx. 151.

CASSENGUE River, South-East Africa, xxx. 145.

Cassiquiare River, joining upper waters of Amazon and Orinoco, xxiii. 212,

Cassowary, in New Guinea, xxi. 18. Castanheiro, Rio Negro, xxiii. 214. Castas, or Mestizos of Peru, xxvi. 218.

CAVERNS.

Caste, approximation to, in East Africa and Arabia, xxix. 312.

Casteel, Port, Orange River State, xxx. 236.

Castella, a Portuguese discoverer, St. Helcna, 1502; xxx. 261.

Castelnau's Travels in South America, xxiii. p. cxxii.; vol. xxv. p. cxxx.

Castilla de Oro, an old name for Darien, xxiii. 179.

Castle Mount, Rocky Mountains, xxx. 297.

ASTOR and Pollux River, Arctic America, xxv. 248, 249, 252, 253. — Oil Plant, East Africa, xxix. 84. CASTOR

Castrotys Oreas, Laconia, xxvii. 43.

Casuarina Trees in Tonga grown in burial-places, xxii. 109.

Cat Island, Bahamas, supposed by some to be the San Salvador of Columbus's Landfall, xxvi. 189, 191, 192, 199.

CATACOMBS in Milo, Measurements of, xxii. 212.

CATALAN Expedition to Rumilia in the

fourteenth century, xxiv. 49, 51. CATARACTS of Rio Negro, xxiii. 214, 215.

- of River Uaupes, ib. 215. – of Upper Zambesi. Mosiao tunya and Victoria Falls.

CATEMA Cabito Kingdom, South Central Africa, xxvi. 124, 126, 129.

Catende, South Central Africa, xxvi. 125, 128.

CATHAPE, River, South Central Africa, xxx. 162.

Catherwood's Plan of Jerusalem, xxiv. 13.

Catlin on the Mandans, xxi. p. xc. CATOMBELA River, South Central Africa,

xxiv. 273. Catorce Mines, Mexico, xxx. 50.

Cattle; in Chusan, xxiii. 248—of the Shammar Arabs, xxiv. 189—Statistics of, on Dauro Mongolian Frontier, xxviii. 416 — of East Africa, xxix. 390—trade of Zanzibar, ib. 445.

Caucasus, Structure of, xxi. 1—Lower,

Caughnawaga Canal, Canada, xxii.

CAUSSIN DE PERCEVAL'S 'History of Arabia before Islam, xxiv. 155.

CAUTLEY, Col. Sir Proby, xxi. 59.

— and Falconer's fossil coveries in Sewalik Hills, xxviii. p. clxxxvii.

Cavendish at St. Helena, xxx. 261.

Caverns; on Milo, called Zopyrus's Grotto, xxii. 215—Singular, at İnjekis

CAXEKE.

in Rumilia, xxiv. 39—on shores of Red Sea, *ib*. 234.

CAXEKE River, South Central Africa, xxx. 140.

Cayo Paloma, Samana, San Domingo, xxiii. 271.

- Pascual, Samana, San Domingo, ib., 282.

CAYS, Samana, San Domingo, ib. 270.

Cazembé, Kazembe, a large African State, lying some distance to the south-west of Lake Tanganyika, or more properly, according to Cooley and Burton, the title of the Sovereign, whose seat is at Usenda, xxiv. 267-270, 274—visited by Laeerda, Monteiro, and Gamitta, xxvi. 111, 114, 117—description of the capital, 120-123; 125, 128, 130; xxvii. 354, 373, 384; xxix. 3, 169, 255-258, 280, 305-388; xxx. 150, 155.

Cazengo, Angola, xxv. 233; xxvi. 82,

Cedars of Lebanon, xxiv. 34.

CENSUS of SWITZERLAND, Summary of the last. By Prof. Paul Chaix, of Geneva. xxiv. 313.

CENTRE of the World believed by people of Al Jauf, Arabia, to be there, xxiv.

- Island, New Zealand, xxviii. 313. - Hill, Otago, New Zealand, ib. 322.

CENTRAL Africa and Central African

Mission; see under Africa.

- America, Further considerations on the Great Isthmus of. By Capt. R. Fitzroy, R.N., xxiii. 171. See also America.

- Asia, Russian Exploration in, xxiii. pp. lxxxvi.-lxxxviii; vol. xxvii. p. cliii.; vol. xxviii. p. clxiv.; vol. xxix. p. clxvi.; vol. xxx. p. clxxx. Cephissus River, xxvii. 13.

CEREALS, Limit of in Himalya, xxi. 18; northern limit of, in Mackenzie River district, &c., xxii. 186—in East Africa, xxix. 397, and passim in that volume.

CEROCAHUIC Silver Mines, New Mexico, xxx. 31.

CERRILLOS Amalgamating Works, Copiapo, Statistics of, xxiii. 210.

CERRO Colorado Gold Mines, Ataeama, xxv. 163.

- Grande Mountain, Mexico, xxx. 58.

— Prieto Lake, North-West Mexico, xxx. 41.

Certigui, feeder of Atrato River, xxvi. 176.

CHALDÆA.

CEYLON, Visit to ANCIENT TANKS of, and attempt to trace the ELLEHARA CANAL, &c. By Sir H. G. WARD, Governor, xxvii. 328.

- Coast Surveys, xxviii. p. cl. 'CEYLON,' Sir J. E. Tennent's, xxx. p.

clxxxvi.

Chad, or Tsad, Lake, Central Africa, xxi. 131—reached by Barth, 219boat launehed on, 220; xxvii. 214; xxx. 113, 121.

Chadda River, or Binué, Benuwe; expedition, xxiv. p. xev.; vol. xxv. p. cxviii.; vol. xxvii. p. clxiv.; but see Baikie, xxv. 108; xxx. 119, 125, 127.

Снае-но, Chusan, xxiii. 244.

Chaga, Chhaga, country about Kilimanjaro, xxviii. 194, 200, 203, 207, 217; xxix. 3, 284, 358, 427, 443.

Chain-bridge over Sutlej, in Tibet,

xxiii. 43.

Chaix, Prof. Paul, of Geneva. Summary of the last Census of Switzerland, 313—extent; proportion of sexes; family condition; political eondition; increase; table of mortality, 314 — emigration; foreigners; religion; population of towns, 315 tables, 316-17.

-. Notes on Hannibal's passage across the Alps, xxv. 182—various and recent theories; that of Deluc and others, 183—of St. Simon; of Replat, 184—valley of Beaufort, ib.; the Little St. Bernard, 185—details of the valley, 186—table of measured altitudes, 188—geology; antiquities, 190—agriculture; people.

Hydro-

GRAPHY of the VALLEY of the ARVE River, xxvii. 224—the Arve, its basin and tributaries, 224-5—bed, 226—temperature; rapidity, 227—body of water, 228—variations in level; water derived from the valleys of Chamouni and Montjoie, 230.

CHAK-CHAK, Fort, Pemba Island, East

Africa, xxviii. 189.

Charraks, or fragments of steppe-land, on Spit of Arabat, Crimea, xxvii. 135.

Chala, supposed site of meteorie iron in Atacama, xxi. 129.

Chalatenango or -nanjo, a department of San Salvador, xxviii. 349-351.

Chalchuapa Lake, San Salvador, ib. 353.

Chalcis, in Lebanon ('Anjar), xxiv. 30. Chaldea, Neeropolis cities of, xxvi. 147—remains in, see Loftus, xxvi.

CHALDÆANS.

131 seqq.—ancient emporia of, xxvii. 185 seqq.

Chaldeans, Suggested descendants of (Beni-Khalid), xxx. 203.

Chalik-kavak, Balkan, xxiv. 57, 75,

Cham, Gueber village in Yezd district, Persia, xxv. 21.

'CHAMBERS'S Edinburgh Journal' eited, xxi. 129.

CHAMOPA, South Central Africa, xxx. 141.

CHAMOUNIX, XXV. 184.

CHAMPION Bay, West Australia, xxii. 68, 72, 73.

Chamshen Tsugaklang, a district of Nari, in Tibet, containing a University, xxiii. 4, 16.

CHANABAYA, South Peru, xxi. 107, 116. Chanarcillo, rich silver mines in Atacama, xxiii. 198, 199, 201, 203, 205, 206—statistics 207 seqq.

Chanaral Bajo, Oasis in Ataeama, xxv.

- de las Animas, Atacama, ib. 159.

Chandapuri, otherwise Moungtchian or Wintchian, one of the Laos or Shan States, xxvii. 90, 91, 106.

CHANDRABHAGA, or Chenab River, its sources, xxiii. 9.

CHANGA Ndumi, old fort at Tanga,

Zanzibar Coast, xxviii. 198. Chang Chenmo Valley, Tibet, xxiii. 11, 42.

-- Kiang, tributary of Yangtsekiang, xxviii. 291.

Changes in Lower Euphrates, xxvii. 190.

Changkoi Peninsula, Putrid Sea, Crimea, xxvii. 134, 138, 139.

CHANGMAI, Kiangmai, Zimmé, &c., State of Laos, tributary to Siam, xxvi. 72, 74; xxvii. 92, 101, 104-108.

Changos, coast Aborigines of Ataeama, xxv. 162.

Снапера, а "Norlander" or Highlander in Tibet, xxiii. 5, 22.

CHANGTANG, Tibetan term for high cold pasture-lands, xxiii. 21, 22, 24, 25, 27, 28, 31, 34, 44, 46, 54, 60, 64, 65, 67, 68.

CHANGGYUT, Tibetan term for "North lands," xxiii. 16, 22, 26, 27, 35, 38, 55, 67.

Chantibon, Siam, xxx. 177, 180, 185. Chapare River, Bolivia, xxiv. 263. Chapigana, Darien, xxvii. 194, 196.

Снарман River, West Australia, xxii. 67, 68, 71.

CHEST.

CHARACTER of East African Races, xxix. 329 seqq.

Charax Spasini, on Lower Euphrates, founded by Alexander, its vicissitudes, xxvii. 186 seqq.

CHARCO, Port of Buriea, Isthmus of Panama, xxiv. 256.

Charigia Creek, Aracan, xxiv. 87.

Charles Mount and Peak, West Australia, xxii. 11; xxvi. 256.

Charter of Incorporation of Royal Geographical Society, xxviii. p. v.

Спатаlсна, Rumilia, xxiv. 37, 38.

CHATTERTON, Sir W. A., Obit. Notice, xxvi. p. clxxiv.

Chatuk, Balkan, xxiv. 73.

CHAUMETTE River, South Central Africa, xxx. 138.

Chaupi Maya, Peru, east of Andes, xxv. 154.

CHAUX-DE-FONDS, Switzerland, increase of population, xxiv. 315.

CHAVDERLIK, Balkan, xxiv. 53, 54. Cheboque, Chiboqui, tribe east

Angola, xxv. 226; xxvii. 350.

Chedim, or Monomotapa, Zambesi, xxx. 154.

Cheechowfoo, Yangtsekiang, xxx. 83,

CHEHAR Danghe, near Tehran, xxv. 2. - Basheh, Nain, Persia, ib. 16.

- Tagh, Jehrum, south of Persia, xxvii. 163.

CHEHETE, Chinese fort, Manehuria, xxxviii. 408.

Снецавсна, Dobrudsha, xxvi. 206.

CHELBASSY River, Sea of Azof, xxvii. 148.

CHELE (Pecheli) Province, China, xxviii. 295.

CHELENKIR Koi, Rumilia, xxiv. 37.

Chell, or Kiang Hung, Shan or Laos State on the Mekong River, xxvii. 59, 99.

CHEMANIS River, Vancouver Island, xxiv. 246.

CHENKA, or Buyuk Chenka, Balkan, xxiv. 76.

Сперо River, and San Blas, route across the Isthmus of Darien by, xxiii. 174.

CHERNAVODA, Kustenjé to, Dobrudsha, xxvi. 206 seqq.

CHERNAYA River, Amur Land, xxviii.

Chesney, General, quoted as to Harbour of Seleucia, xxiii. 157, 171—as to ruins near Aleppo, xxx. 209.

Chest, Size of, in New Zealanders as compared with British soldiers, xxiii. 90.

CHEVA.

CHEVA Tribe, South Central Africa, xxvi. 113.

Cheyne's Inlet, West Australia, xxii. 52.

Chhaga. See Chaga.

CHIANG Toong, Shan State. See Kiang

CHIAPA, South Peru, xxi. 120, 121. Chiboqui Tribe. See Cheboque.

CHICHIGAR, Manchuria, xxviii. 385, 395, 407.

Chiconhueso River, San Salvador, xxviii. 352.

Chicora, Zambesi River, xxvi. 110; xxx. 156.

Chidam, kingdom near Zambesi, xxvi. 112—apparently same as Chedim, q. v.

CHIENG-RAI, Laos or Shan country, xxx. 195—perhaps the same as Kiang-hai, q. v.

Сніниания, North-West Mexico, ххх. 6, 15, 20, 27, 29, 30, 41.

CHIKAPA River, South Central Africa, xxv. 225, 236; xxvi. 81.

CHILÉ, or Chili; boundary with Peru, xxi. 127 — Notices of physical geo-graphy of, xxiii. p. cxxiii. — Geographical works on, xxv. p. cxxx.—Lieut. Gillis's observations in, xxvi. p. ccxxiii.—and Lower Peru, South wind of, xxvi. 160—was part of the Incas' dominions, ib. 210—Railway proposed across Andes of, xxx. p. elvii.

-, Observations on the Coal For-MATION in. By W. Bollaert, xxv. 172.

Chilibe Keui, Dobrudsha, xxvi. 207. CHILLO Valley, Ecuador, xxviii. 337. Снімва Вау, Atacama, xxv. 160.

Chimborazo, xxx. 65.

Chimore, Bolivia, xxiv. 263.

CHINA; Chinaman, Tibetan names for, xxiii. 1—Paper on, by Sir John Davis noticed, xxvii. p. clx. — Traditional origin of Druzes from, xxviii. 262— Depopulation of Central, by the Re-

bellion, xxx. 75, 93 seqq.

to, xxii. p. ex.; vol. xxviii. p. elxx.; vol. xxx. p. clxxiv. — Coast surveys, &c., xxv. p. ci.; vol. xxvi. p. cxcix.; vol. xxvii. p. exxv.; vol. xxviii. p. cl.; vol. xxix. p. exliv.—Maps and Surveys of, xxx. p. exxxvi. See also Davis, xxiii. 242 — Lockhart, xxviii. 288 — Oliphant, xxx. 75 — Blackney, xxx.

-, Report on Russian Caravan TRADE with. By HARRY PARKES, XXIV. 306.

сноро.

Chinaman keeping a hotel in Mexico, xxx. 10.

Chinese Junk in Peru in 1815, xxi. 107. diamond-miners and gold-washers in Borneo, xxiii. 73, 74—settlers in Borneo, 83, and their wars with the Dutch, 84, 86—travellers through Laos (in Duhalde), xxvii. 90, 106—high character of, among the Shans, ib. 103 — emigration to our colonies, xxviii. p. cxcii.—Jews, and list of their Scripture books, ib. 298.

Chingis Khan, xxviii. 413.

Chingtufu, Szechuen, China, xxviii. 289.

Chinkiangfu, China, xxviii. 292; in 1858, xxx. 78, 95.

Chintzeshan, or Mirror Hill, Yangtsekiang River, xxx. 85.

Chingo Volcano, San Salvador, xxviii. 350.

Chinto Capinda, South Central Africa, xxx. 154.

Chipana, South Peru, Gold found at, xxi. 107.

Chipongo, Zambesi, xxx. 158.

Chirambira, Pacific side of Darien, xxvi. 175-177.

Chire, or Xire River (Shiré, q. v.), xxvi. 112, 114.

CHIRIHUANOS Indians of South Peru, xxi. 123.

Chirimayu River, "Cold River," east of Peruvian Andes, xxv. 151, 152.

Chiriqui Province, Isthmus of Panama. See Smith, xxiv. 256.

Chitinsk, Siberia, xxviii. 377.

CHITTAGONG sloops trading with Akyab,

xxiv. 87. Chjagasu, Manchuria, xxviii. 408. Chjunan, Manchuria, ib. 409.

Chlia Lake, Amur, ib. 399.

Choaspes River (Kerkhah), xxvii. 120,

123, 125, 126.

Снове́ River, one of the great feeders of Zambesi, from the borders of Benguela, xxii. 165-167, 169, 172, 173; xxiv. 292, 294, 300-302; xxv. 220, 221, 224, 229; xxvi. 129, 130; xxvii. 353, 354, 358, 375; xxx. 138.

Сновwé, Pangani River, Zanzibar Coast, xxviii. 204 seqq.— elephants about, xxix. 374.

Chois River, North-west Mexico, xxx. 16, seqq.

Chole, Manchuria, xxviii. 408.

Chongar Peninsula and River, Sivash, Crimea, xxvii. 134-136, 138, 139.

Сноро Hills, Bamanguato, South Central Africa, xxvi. 88.

CHORBAT.

Chorbat, Balti, xxiii. 14, 16, 27, 29, 34, 55-58, 60.

Chouga Branch, Danube Delta, xxx. 165.

Christian Missions, Failure of, among Vancouver Islanders, xxvii. 307. Sec Missions, Missionaries.

Christians, the Jimma people, East Africa, xxv. 210—Native, in Burma, xxvii. 73—Reports of in Africa, near the Equator, xxx. 136.

Christopher, Lieut. 1.N., Examination of East Coast of Africa by, xxix. 2.

Chronometric Expedition to determine difference of longitude between United States and Great Britain, xxi. p. lxxxix.

Chuchulai, South Peru, xxi. 107.

Chucunaque, Chuqunaque, River, Darien, xxiii. 178, 180, 181, 184; xxvii. 194 seqq.

Chueti River, Darien, xxiii. 180.

Chuicchuic, site of supposed Meteorolites

in Atacama, xxi. 129, 130. Chukar, "White River," Tibet, a source of the Sutlej, xxiii. 39, 43.

Chülün, Balkan, xxiv. 72. Chumur, Tibet, xxiii. 44.

Chumurti, Tibet, xxiii. 13, 16, 24, 25, 26, 31, 39. 60.

Chunchos, savage Aborigines east of Peruvian Andes, xxv. 154—notes regarding, 155.

Chuparador River, Darien, xxvi. 180.

Cutpipi River, Darien, ib.

Chuquipoyo, Chimborazo, xxx. 65.

Сиивси, Comm. R.N., Obit. Notice, xxvi. p. xev.

Corporal, Royal Sappers and Miners, with Dr. Vogel, xxiv. 280, 281 — presentation of testimonial to, xxvi. pp. viii., elx.

Churchill River, British North America, xxii. 182, 183, 188; xxv. 256.

-, Adams, and Bailey, Messrs.; Report on ancient Ellahara Canal, Ceylon, xxvii. 334.

H. A., companion of Loftus, q. v., xxvi. 131, 150; author of Map of Babylonia, 153.

CHUSAN, with a SURVEY MAP of the Island. By Sir J. F. Davis, xxxiii.

Снияміял, Sibaya, South Peru, xxi. 116. CHYA K'henge, Lake Route, East Africa, xxix. 107.

CIBAO, central mountain chain of San Domingo, xxiii. 272, 273.

CIENGITA, North-West Mexico, xxx. 14. CINALOA, Province, town, and tribe of,

CLIMATE.

North-West Mexico, xxx. 2, 6, 7, 10, 12, 14, 20, 30, 38, 41, 43, 44.

CIRCEE Indians, British North America, xxx. 286.

Circumcision; among Damaras of Southwest Africa, xxii. 159; not practised by Dyaks of Borneo, but another strange custom, xxiii. 79; in Australia, xxviii. 151; in East Africa, xxix. 84, 160, 165, 350.

CITALA, town of, San Salvador, xxviii.

349, 351, 356, 358.

CLALLUM Bay, Washington Territory, xxvii. 319. See also Clellum, Tsclat-

CLARENCE Head, Sir T. Smith's Sound, xxvi. 11.

CLARENDON Island, Chadda River, xxv. 115.

CLARKE, Rev. W. B., his anticipations of gold discoveries in Australia, xxii. p. lxxxiv.; Letter on Comm. Kennedy's Journal of Central Australian Expedition, xxii. 228; his notes to Kennedy's "Meteorological Observations," "Meteorological Observations," 280; his exploration of Australian goldfields, xxiii. p. cxxiv.

Notice, xxii. p. lxx.

River, North-East Australia, xxviii. 116.

CLAY-EATING, XXV. 210; XXIX. 201-2.

CLAYOQUOT Sound, Vancouver Island, xxvii. 269, 288, 294, 295.

CLEARWATER River, British No. America, xxii. 183, 185; xxx. 279.

CLEGHORN, JOHN, Observations on the WATER OF WICK, XXVII. 230.; on the movement to windward of sand and boulders in this bay, and others; also see ib. cxxxiv.

CLELLUM Indians, xxvii. 319; also Tsclal-

CLEOMENES at battle of Sellasia, xxvii. 36, 38.

CLIMATE; of Great Britain, see Hopkins, xxvii. 206; of (Asiatic) Georgia, xxi. 5 seqq.; of Middle Island, New Zealand, ib. 26; of Kumaon Himalya, ib. 72; of Western Tibet, xxiii. 58; of Bornco, xxiii. 71; of Sea of Aral, 100; of Zanzibar, 105, 109 seqq.; of Darien, danger from, xxiii. 186; of Chusan, ib. 247; of Red Sea, xxiv. 231; of Chadda River, xxv. 109; of Harar, East Africa, ib. 144; of Peru, xxvi. 216; Winter, of Texas, Louisiana, and Florida, xxvii. 207; of Vancouver's Island, xxvii. 275; of Western Augtralia, xxviii. 143; of New Guinea,

CLIMATOLOGY.

xxviii. 271; of Dauro-Mongolian frontier, ib. 416; of Zanzibar coast, xxix. 36; of Usagara, 105; of Ugogo, 140; of Unyamwezi, 173; of Ujiji and Lake Tanganyika, 207; of Usukuma, 261; of Mazatlan, xxx. 2; of Culiacan, North-West Mexico, ib. 12; of Chihuahua, 42; of Canilos, Ecuador, 71.

CLIMATOLOGY of the United States, xxix.

p. cevii.

CLINTON Colden Lake, Arctic America, xxvi. 19, 24, 25.

CLIPPER, Sovereign of the Seas, Extra-

ordinary voyage of, xxiii. 240. CLIVE, Hon. Robert, Obit- Notice, xxiv.

p. lxxxii.

CLOTHING of East African races, xxix. 323, 324, and many other passages in same volume, e. g., 85, 131, 160, 197, 222, 279, 286.

CLOTHS of sorts imported at Zanzibar for East African barter, xxix. 428 segg.

Clouds in Ladak, Observations on, xxiii.

Cluse on the Arve, xxvii. 226. Clutha River, Otago, xxviii. 308.

CLYDE River, Davis Straits, xxiii. 144,

COAL; in New Zealand, xxi.27, 28; xxix. p. ccxvii; coalfields in West Australia, xxii. 32, 36, 41, 43, 56, 58; coal formation in Rocky Mountains, ib. 184; of Borneo and Labuan, xxiii. 72; in Costa Rica, ib. 173; in Samana, San Domingo, ib. 275; coalfield in and near Vancouver Island, xxiv. 247; 273-88; coal formation in XXVII. Chilé; see Bollaert, xxv. 172; American, xxvii. 314; on Zambesi, ib. 378; coalfields of North China, xxviii. p. exei.; of British North America, xxx. 273, 279; on fire, 312.

Coandéré River, South Central Africa,

xxx. 138.

Coango, or Quango River, flowing north from interior of Angola, supposed great feeder of the Congo or Zaire, xxv. 225-227, 235, 236; xxvi. 80-83, 121-123, 130; xxvii. 349, 352, 353; xxx. 151.

Coanza River, Angola, xxv. 222, 230; xxvi. 83, 84, 121, 124, 128; xxvii. 353, 370, 373; xxx. 137, 138, 148, 150.

Coast Surveys. British; England, East coast, xxi. p. lxv.; vol. xxv. p. xcix.; vol. xxvii. p. cxxi.; vol. xxviii. p. exliii.; vol. xxix. p. exxxix.; vol. xxx. p. exxviii.; South coast, xxi. p. lxv.; vol. xxiv. p. lxxxix.; vol. xxv. p. c.; vol. xxvi. p. cxciii.; vol. xxvii. p.

COAST.

cxxi.; vol. xxviii. p. cxliv.; vol. xxix. p. cxxxix.; vol. xxx. p. cxxix.; West coast, including Bristol Channel, xxiv. p. lxxxix.; vol. xxv. p.c; vol. xxvi. p. exciii.; vol. xxvii. p. exxi.; vol. xxviii. p. cxliv.; vol. xxix. p. cxl.; vol. xxx. p. cxxix.; River Thames, xxvii. p. cxx.; vol. xxviii. p. cxliii.; Channel Islands, xxx. p. cxxix; North Sea, xxiv. p. xc.

Scotland and the Islands, xxi. p. lxv.; vol. xxiv. p. xc.; vol. xxv. p. c.; vol. xxvi. p. exciii.; vol. xxvii. p. exxi.; vol. xxviii. p. exliv.; vol. xxix. p. exli.

vol. xxx. p. cxxx.

Ireland, xxiv. p. xc.; vol. xxv. p. c.; vol. xxvi. p. cxciv.; vol. xxvii. p. exxii.; vol. xxviii. p. exlvi.; vol. xxix. p. cxlii.; vol. xxx. p. cxxxi.

Baltic, xxiv. p. xc.; vol. xxv. p. c.;

vol. xxvi. p. cxcv.

Black Sea, vol. xxiv. p. xci.; vol. xxv. p. c.; vol. xxvi. p. excvi.; vol. xxvii. p. exxiii.; vol. xxviii. p. exlviii.; vol. xxix. p. cxliv.; Sea of Azof, xxvii.

p. exxiv.

Syria and North Egypt, xxvii. p. exxiv.; vol. xxviii. p. exlix.; vol. xxix. p. exliv.; vol. xxx. p. exxxiii.; Candia, vol. xxi. p. lxvi.; vol. xxvii. p. exxiv.; vol. xxviii. p. exlviii.; vol. xxx. p. exxxii.; Malta and Gozo Strait, xxix. p. exliii.

Cape of Good Hope, xxiv. p. xci.; vol. xxv. p. ci.; vol. xxvi. p. exevii.; vol. xxvii. p. cxxv.; vol. xxviii. p. exlix.; vol. xxix. p. exliv.; vol. xxx. p. cxxxv.; North-east Coast of Africa

(Somali), xxi. p. lxxviii.

Indian Ocean, xxv. p. ci.; vol. xxvi. p. exeviii.; Arabia, xxii. p. exii.; vol. xxix. p. exlvi.; Persian Gulf, xxix. p. exlvi.; Sind, xxv. p. exii.; vol. xxvi. p. cexvii.; vol. xxix. p. exlvi.; West of India and Ceylon, xxi. p. lxxviii.; vol. xxv. p. cxii.; vol. xxviii. p. cl.; vol. xxix. p. cxliv.; Coromandel, xxi. p. lxxviii.; Pegu and Malacea, xxv. p. cxii.; vol. xxvi. p. ccxvii.; vol. xxix. p. cxlvi.

Indian Archipelago, xxi. p. lxvi.; vol. xxiv. p. xc.; vol. xxvi. p. excix.; vol. xxix. p. cxlvii.; (Banka St.) xxx. p. exxxvi.; Siam, vol. xxvi. p. exeviii.; vol. xxvii. p. cxxvi.; vol. xxviii. p. eli.; China Sea, vol. xxi. p. lxv.; vol. xxiv. p. xc.; vol. xxv. p. ci.; vol. xxvi. p. excix.; vol. xxvii. p. exxv.; vol. xxviii. p. cl.; vol. xxix. p. cxlv.; vol. xxx. p. cxxxvi.; (Yangtsekiang), xxix.

COAST.

pp. cxlv., exlviii., elxxi.; Japan, xxvi. p. exeviii.; vol. xxix. p. exlv.; Tartary, xxvi. p. excviii.; vol. xxvii. p. exxvi.; vol. xxix. p. exlviii.; vol. xxx. p. CXXXVI.

New Guinea, xxi. p. lxvi.; vol. xxix. p. exlix.; Australia, xxv. p. cn.; (Port Jackson), xxviii. p. clii.; vol. xxix. p. exlv., exlviii.; vol. xxx. p. exxxvii.; New Zealand, xxi. p. lxvi.; vol. xxiv. p. xci.; vol. xxv. p. cii.: vol. xxvi. p. exeix.; vol. xxvii. p. exxvi.; vol. xxviii. p. clii.; South Paeific, xxiv. p. xci.; vol. xxv. p. cii.; vol. xxvi. p.

cc.; vol. xxvii. p. exxvi.

Arctic America, xxv. p. cii. (and see Arctic Papers); Vancouver Island, and British Columbia, xxviii. p. elii.; vol. xxix. p. el.; vol. xxx. p. exxxviii.; Falkland Islands, xxvi. p. eci.; River Plate, xxvi. p. cei.; vol. xxvii. p. exxvii.; vol. xxviii. p. clii.; Brazil, xxvi. p. eci.; vol. xxvii. p. exxvii.; West Indies, xxi. p. lxvi.; vol. xxiv. p. xci.; vol. xxv. p. cii.; vol. xxvi. p. cci.; vol. xxvii. p. exxvii.; vol. xxviii. p. cliii.; vol. xxx. p. cli.; vol. xxx. p. exxxix.; Nova Scotia and Bay of Fundy, xxiv. p. xc., xci.; vol. xxv. p. cii.; vol. xxvi. p. cc.; vol. xxvii. p. exxvii.; vol. xxviii. p. cliv.; vol. xxix. p. cl.; vol. xxx. p. exxxix.; St. Laurence, xxi. p. lxvi.; vol. xxiv. p. xeii.; vol. xxvii. p. exxviii.; vol. xxx. p. CXXXVIII.

Review of what has and has not been accomplished in the coast surveys of the East, xxix. p. exlv.-cl.

AMERICAN. United States Coast, xxv. p. exxvi; vol. xxvi. p. eexx.; vol. xxvii. p. elxxxiii.; vol. xxviii. p. 154; River Plate, xxvii. p. clxxxvii; California and Oregon, xxi.

p. lxxxix.

French. Africa, xxii. p. civ.; Spain and Straits of Gibraltar, xxv. p. eiv.; vol. xxvi. p. ecii.; vol. xxx. p. elxxxiv.; Italy, xxv. p. ev.; vol. xxvi. p. ceii.; vol. xxx. p. clxxxiv.; New Caledonia, xxv. p. ev.; vol. xxvii. p. exliii.; Central America, xxvii. p. exliii.; China, ib.

Norwegian, xxii. p. xcvii.; vol. xxvi.

p. cev.

Coast Line of Borneo, Extent of, xxiii. 70.

Cobango, in the Lunda country, South Central Africa. See Cabango.

Cobija, Port of, Bolivia, xxi. 126, 129; xxv. 159-162, 165, 171.

COLLINSON.

Coburg Island, Baffin's Bay, xxiii. 142. -, Peninsula, North Australia, xxviii. 139.

Cobus-uys Farm, Eland River, Trans-

vaal, xxii. 138.

Coca of Peru, Use of, xxi. 122; plantations of, in Bolivia, xxiv. 260; farms, harvests and produce, xxv. 154.

Cochabama, Bolivia. See Lloyd, xxiv.

259.

Cochin China, xxvi. 73; xxx. 184, 185. Cocos Islands, Bay of Bengal, xxvii. 65.

Codazzi, Colonel, of New Granada, xxvii. 192, 197, 198.

Codfish Island, New Zealand, xxviii. 313.

Cod-fishery, Vancouver Island, xxvii. 310.

Coffee of Samana, San Domingo, xxiii. 279; wild, of Lake Nyanza, xxix. 183, 285, 290.

Coffin, Capt., visits Bonin Islands, xxvi.

Col du Bonhomme, Col de la Fenêtre, Col du Mount Joly, Col de la Scigne, Upper Savoy, xxv. 185.

Colby, Major-General, xxiii. p. lxviii., xci. Obit. Notice,

-, Mount, Central Australia, xxii.

Cold, The Pole of summer, in Northern hemisphere is Winter Island, xxii. 124.

-, Greatest, experienced in Ladak by

Capt. Strachey, xxiii. 60.
— current of South Pacific, xxiii. 223.

- Water Lake, British North America, xxx. 270.

Colesberg (South Africa), Journey from, to STEINKOPF. By ROBERT MOFFATT. Government Surveyor at the Cape, xxviii, 153.

Collie River, West Australia, xxii. 55. Collinson, Capt. R., R.N., Account of proceedings of H. M. S. Enterprise, from Behring Straits to Cambridge BAY, XXV. 194; Enterprise and Investigator part company, 195; Sandwich Islands; pass PointBarrow, and obliged by ice to return; two officers left in Norton Sound, 196; Sitka; winter at Hong-Kong; death of Licut. Barnard; pass Point Barrow again; ice dangers; natives, 197; pass the Mackenzie River; Cape Bathurst, 198; reach within fifty-five miles of Parry's extreme point; pass up Prince of Wales's Strait; winter at entrance of it, 199

COLLINSON.

explorations; reach Cambridge Bay; second winter, 200; Esquimaux, habits, &c.; Spring explorations in search of Franklin's traces, 202; fuel short, and obliged to turn westward, 203; compelled to pass third winter in Camden Bay; news received from the *Plover*, 204, after three years and a half without intelligence; repass Behring Straits. Geographical Positions, 205, 206.

Collinson, Capt., his voyage noticed, xxiv. 240; vol. xxv. p. exxii.; vol. xxvi. p. ceviii.; his finding supposed traces of Franklin, xxvi. 27, 32; Founder's Medal awarded to, xxviii. pp. v., cxx. See also Amur River, xxviii. 376.

Colnett's observations on currents at the Galapagos and in the Pacific, xxiii. 224, 234.

Colongo, in Hambo, Central Africa, xxiv.

Colorado Mine, Atacama, xxiii. 198. Colour of Rio Negro and tributaries,

xxiii. 212.

— of African races, xxix. 315.

Coloured travellers in Africa, vol. xxx.

p. clxvii. seqq. Colquhoun, Col. James Nesbitt, Obit. Notice, xxiv. p. lxxxii.

---, Chevalier James, Obit.

Notice, xxvi. p. clxxiv. - Range, Prince of Wales's Land, Arctic Sea, xxiii. 128.

Columbia River, Oregon, xxii. 190, 192; xxvii. 303.

-, British, xxvii. 311; xxix. p. excix.

Old Republic of, separated into Ecuador, New Grenada, and Venezuela, xxx. 64.

- Lakes, Rocky Mountains, xxx. 290.

- portage, Rocky Mountains, ib. COLUMBUS, the LANDFALL of, on his FIRST VOYAGE. By Capt. A. B. Becher, R.N., xxvi. 189.

- at Samana, San Domingo, xxiii. 264, 269; his expectation to reach Japan, &c., xxvi. 195 (Becher, as above).

Colvile Mountains, Arctic Sea. xxii. 78. -— River, Russian America, xxiv. 242; xxv. 196.

Comalapa River, San Salvador, xxviii.

Comayaqua, capital of Honduras, xxx. 62, 63.

COMET River, North-East Australia, xxviii. 128.

CONTAMINES.

Commentaries (on various ancient campaigns in Greece). By Lieut.-General Jochmus, xxvii. 1.

Commerce of Harar, xxv. 146; of East

Africa, xxix. 421. COMMERCIAL Inlet, Vancouver Island,

xxvii. 277. Committee Bay, Arctic Sea, xxv. 255.

Communication with Peru and other Andes countries by the Amazon River. See Markham, xxv. 151-8; Lloyd, xxiv. 259; and Pritchett, xxx. 64.

Comparative vocabulary of Bayeye and other South African languages, xxv. 96.

- of the Malay and Maori languages, xxviii. 330. See Vocabularies.

Conchagua volcanoes, San Salvador,

xxviii. 351 seqq. Conchos River, North-West Mexico, xxx.

Condamine's sounding of the Amazon River, xxv. 157.

Condensation of vapour producing vacuum; the effect of, in causing prevalent winds, xxvi. 159 seqq.; xxviii. 362 seqq., and Hopkins's papers generally, q. v.

—, Extensive in British isles the cause of mild winter temperature, xxvii. 217, 218.

Condocondo, or Aullagas Lake, in Bolivia, xxvi. 214.

Condor, The, in South Peru, xxi. 119, 121.

Confluence of Chadda and Kwora rivers, xxv. 112.

Conglomerate of Tibet, Remarkable, xxiii. 20.

Congo River, xxv. 235, 236; xxvi. 116, 164, 171; Skene's ascent of, cexi.; xxvii. 352, 361; ascent of by Hunt and Moresby, xxviii. p. cci.; xxix. 307; xxx. 148, 261; also see Coango.

Congress of Peru, xxvi. 220.

Conguti Chock, in Caucasus, xxi. 1.

Coni River, Bolivia, xxiv. 263.

Conope, Ætolia, xxvii. 3, 7.

Constancia Farm, East of Andes, xxv. 165.

Constantine Island, Sea of Aral, xxiii. 99.

Constantinople; Post horses at, xxiv. 36; notes on environs of, see Jochmus, ib.

Constitution Bay, North Greenland, xxvi. 9.

Contamines, Upper Savoy, xxv. 187.

CONTINGENT.

Contingent of Shan States tributary to

Burma, xxvii. 103. Contour lines on Ordnanee Surveys, xxiii. p. xei.; vol. xxvi. p. exe.

Convent of St. Catherine, Sinai, xxv.

Convict labour, xxvi. 186.

Conybeare, Dean, Obit. Notice, xxviii.

p. exxvii.

Cooley, W. Desborough, Remarks on the notice of a Caravan Journey across Africa, eommunicated by Vice-Consul Brand, xxiv. 266; original notice by Bernardino de Castro of Benguela, briefly states the route of three Mahomedan travellers from Zanzibar to Benguela, 266; Mr. Cooley's remarks, 267; Bocamoio [Bogamoyo], Gungo, or Gugu [Ugogo], 268; Mimbo, or Uimbu [Ukimbu?]; Nugigi, or Ujiji; Lake Tangana (Tanganyika); Cazembe, Cahaya, Cabita, 269; Bunda, where they meet a Portuguese agent; Bihé, Benguela; movements of tribes, course of the new Zambesi, 270; probable truth about objects of these adventurers; possibility of getting a fuller narrative; suggestions, 271; Mr. Bollaert's project for crossing Africa.

—, Remarks on letters of a Hungarian Traveller (Ladislaus Magyar. or Amerigo) in Africa, xxiv. 271; his route from Benguela to kingdom of Hambo, Kandala, Kindumbo, Colongo, kingdom of Bihé, 272; the Kimbundu; he marries; his dowry; Kariongo; sources of great rivers; Yah-quilem on Kaszabi, 273; specimen of poem in the Bunda language, 273; remarks by Mr. Cooley, 273-5.

-; his map of

Africa, xxiii. p. exiii.

-, referred to and cited or controverted, xxvi. 121; vol. xxix. p. clxxxiv. By Burton, ib., 3, 43, 45, 49, 50, 66, 77, 125, 128, 166, 195, 208, 214, 217, 231-234, 255, 256, 264, 273, 279, 307, 380, 420.

Cooper's Creek, Central Australia, xxii.

246.

COOTE, Sir Eyre, Diary of a Journey with him from Bussora to Aleppo in 1780 (? 1770), xxx. 198. See under Bussora.

CORK-TREE of the Amur, xxviii. 422. COPAL Trade at Zanzibar, xxix. 435

Copiaro (Atacama), Mines of. By Colonel J. A. LLOYD, xxiii. 196.

COSTA.

Coptapo, xxi. 102, 127-129; xxv. 163, 165 - 170.

—, British Mining Company, xxiii. 196.

Copper Coin imported from Russia into China, xxiv. 308.

- and Coppermines; of South Peru (Duendes and Toeopillo), xxi. 107; of Bolivia, 127; of El Hofrah, South of Darfur, xxiii. 120; of Ataeama, xxiii. 196 seqq.; xxv. 159 seqq.; in North-West Mexico, xxx. 21, 36-39; in East Africa, xxix. 383.
Coppermine River, North America,

xxii. 74, 82; Rae's descent of, ib. 83;

aseent of, 95; xxv. 203.

Coprates, River (the Diz in Khuzistan),

xxvii. 120, 125.

COQUEMA, River, South-West Coast of Africa, xxx. 137, 138.

Coquimbo, Atacama, ххі. 102, 126, 128;

called La Serena, xxvi. 161.

Coras, an Indian Tribe of North-West

Mexico, xxx. p. xii.
Cordilleras, East and West, or the two of Peru and Bolivia, xxi. 103, 125; xxv. 158, 163, 167, 170; xxvi. 211 seqq.: Cordillera Real, xxi. 103, 125; of Darien, xxvii. 195, 202.

Corea, New Map of, by Kim and Jomard, xxvi. p. cexx.

Corinth, xxvii. 10.

Cormet Pass, Upper Savoy, xxv. 185. Cornelius Nepos eited, xxvii. 19, 20, 22, 26.

Cornwall Coast Surveys, xxiv. p. lxxxix.; vol. xxv. p. c.; vol. xxvi. p. exeiii.; vol. xxvii. p. exxi.; vol. xxviii. p. exliv.; vol. xxix. p. exl.; vol. xxx. p. exxix.

CORONATION Gulf, Arctie Sea. xxii. 84. Coronel Coal Deposit, Chilé, xxv. 172. Corpulence cultivated by females of

Nyanza regions, xxix. 286.

Corralitos Silver Mines, North-West Mexico, xxx. 28.

Corredor, Pacific side of Darien, xxvi.

Cosala, North-West Mexico, xxx. 7. Cosanga, River, Ecuador, xxviii. 338. Remarks on Humboldt's,

'Cosmos,' xxviii. p. clxix.

Cosnipata, East of Andes, xxv. 154, 156, 157.

Cossimabad, near Tehran, xxv. 2.

Cost of Ordnanee Survey of Scotland, xxv. p. civ.

Costa Rica, Advantages of, for a Communication across American Isthmus, xxiii. 173.

COSTA.

Costa of Peru, xxvi. 211. Coti, Borneo. See Kuti.

COTOPAXI, Volcano, Ecuador, xxx. 66, 68, 71.

Cotton; in Milo, xxii. 222; in Chusan, xxiii. 254—goods imported into China from Russia, xxiv. 308—fields of the world, Remarks on, xxix. p. exciii.; in East Africa, ib. 404—cloths imported into Zanzibar for barter, ib. 422 seqq. — Arborescent, in Peru, xxx. 73—great field for, in ditto, 74—cloth, early manufacture of, in Negroland, ib. 124.

Couch, Lieut. U.S. Army, his Scientific Journey to Mexico, xxvi. p. ccxxi.

Coue, River, South Central Africa, xxx. 138.

Couphi, or deaf adder of Cyprus, xxii. 224.

Court, Mr., Master of the Furious, xxx. 75.

Couvelos (Thermos), Ætoļia, xxvii. 2, 4, 6.

Couxito, South Central Africa, xxx. 142, 152.

COVERT River, British North America, xxii. 179.

Cowall, Fars, Persia, xxvii. 119.

Cow-cowing, Salt Lake, West Australia, xxvi. 235, 236, 268.

Cowichin Head and River, Vancouver Island, xxiv. 245; xxvii. 269 seqq. to 320.

COWLITZ River, Oregon, xxii. 192.

Cow Tree (Palo de Vacca), giving a kind of gutta percha, Isthmus of Panama, xxiv. 257.

Cowries, in East Africa, xxix. 288, 448.

Cox, Capt. Hiram, Mission to Ava, xxvii. 84.

—, Lieut., his Surveys, xxiv. p. lxxxix. Coyote, North-West Mexico, xxx. 14. Coyotitlan, ditto, ib. 8.

CRAMONT, Upper Savoy, xxv. 185. CRANIUM of East African Negroid, xxix.

314. CRATER, Apparent, Dead Sea, xxvi. 66

—at St. Helena, xxx. 265. ——Lakes in San Salvador, xxviii.

352, 358.

CRAWFURD, John. Sketch of the Geo-GRAPHY of Borneo, xxiii. 69. No native, general and popular name, though sometimes called Pulo Kalamantan; European name taken from the state of Borneo Proper (Brunai or Borné); Shape and Area, 70; Coastline; Mountains; Lakes; principal

CRIMEAN.

Rivers on Western side; on Southern side, 71; on North-west side; Climate; Primeval Forest; no harbours, but no storms; Geological Formation, 72; no Volcanoes known. Mineral Wealth: Coal; Iron, its high quality; Anecdote by Dalton; Diamond Mines, 73; Soil and mode of Working; a Dutch monopoly, 74; Largest Diamond; Gold-washing; Antimony, discovered accidentally by Mr. Crawfurd to be a Borneo product. Vegetable Products, 75; Timber; Camphor; Camphor Oil; Sago; Rattans and Canes; Animals—Wild Ox; Elephant; no Rhinoceros or Tiger. Animal Products: Beeswax; Swallow Nests; Bezoar Stones, and their origin. Four races inhabit their origin. Borneo, 76; Description of Dalton and Burns; the Aborigines or Dyaks; the Kayan tribe of Dyaks; domestic animals, 77; no beasts of burden; no alphabet. Barbarous customs; Head hunting, a necessary preliminary to Marriage; Funeral Ceremonies, 78; little trace of Religion; superstitions; barbarous and obscene custom, 79; rite of swearing friendship by blood-drinking; despotic power, 80; dread of fire-arms; after all, a Malayan race.

The Malays and their settlements; always on Rivers, and near Coast, 82; some Dyak converts to Mahomedanism; traces of Hindu temples and images; believed to have come through the Javanese, 83.

The Chinese settlers; European meddling has hindered from becoming numerous and powerful, 84. The Bugis.

Population low; estimate not more than one million, 85—what it would be at the ratio of the more populous islands. Mischief of European interference, 86.

Islands, xxi. 239—on Borneo referred to, xxii. p. cxi.—his Mission to Siam, xxvi. 71—his Mission to Ava, xxvii. 84—his discovery of the existence of antimony in Borneo. See above.

CRESCENTI River, East of Andes, xxv. 155, 156.

CRETE, Extract of a Letter from Capt. Spratt, R.N., on, xxiv. 238.

———, Elevation of West end of, xxii. 227—survey of, xxviii. 148.

Crimean Peninsula, xxvii. 133 seqq.

CRIMSON.

Crimson Cliffs of Sir John Ross, xxiii.

Crino River (qu. Cuno? q.v.), Central

Australia, xxii. 240.

Crocodiles, in Lake Ngami, xxi. 22—exported for the table in Cochin China, xxx. 197.

Croker, Capt., killed in Tonga; his grave, xxii. 99.

Crooked Island group, Bahamas, xxvi.

Crossing of blood, in East Africa, xxix.

Croup and its cure, Delagoa Bay, xxvii.

Crowe, Consul, at Hammerfest, his evidence as to open sea round Spitzbergen, xxiii. 132.

Crowther, Rev. Samuel, Negro Clergyman, xxv. 109, 121—a specimen of the capabilities of the Yoruba race,

xxx. 121, 230.
Crow-wing, Minnesota, xxx. 267.
Cruiser, H.M. Ship, up Yangtsekiang, xxx. 76.

CRUISER Bank, Yangtsekiang, ib. 94. CRUSADERS' Castles in Syria, xxiv. 4, 5,

CRUTTENDEN, Capt., on Red Sea Climate, xxiv. 232.

Crysappa, Laconia, xxvii. 52.

Cuama River (Zambesi Mouth), xxvi. 110, 116; xxvii. 377.

CUANDA, or Quando River, South Central Africa, xxx. 138, 162.

Cuatepeque Lake, San Salvador, xxviii. 352.

Cuba, taken by Columbus for part of Cipangu (Japan), xxvi. 195, 200.

CUBANGO River, South Central Africa, xxx. 138, 162.

CUBITT on relative level of Red Sca and Mediterranean, xxiv. 235.

Cubulai River, South Central Africa, xxx. 137.

Cuenca, Ecuador, xxx. 70, 71.

CUENTI River, South Central Africa, xxx.

Cuesta de Parasuga, South Peru, xxi. 118.

- de Paltacueva, Bolivia, xxiv.

-, General, at Mcdellin, xxvii. 30. Cuito River, South Central Africa, xxx. 138.

CULAQUIMBE, South Central Africa, ib. 162

Culgoa River, Central Australia, xxii. 262, 263.

Culham Inlet, West Australia, xxii. 33.

CUTUPE.

Culican River and Town, North-West Mexico, xxx. 6, 7, 10, 45.

Cullen, Dr. Edward, Vocabulary of the Language of the Tule Indians (misprinted Yule) in Darien), xxi. 241.

Cultivation in North Arabia, Traces of ancient, xxiv. 130.

CUMBERLAND Island, North-East Australia, xxviii. 5.

— Sound, Davis Straits, xxiii. 145.

Cumsha River, South Central Africa, xxx. 138.

Cunda, South-East Africa, ib. 143.

CUNDE River, South Central Africa, ib.

Cunene River, South Central Africa, xxiv. 273.

Cunhinga, South Central Africa, xxx. 141.

Cuno River, Central Australia, xxii. 257. See Crino. .

Cupica and Atrato rivers, Route by, across Darien, xxiii. 174.

— See also Friend, xxiii. 191 seqq. Curi-urcu Tambo, Ecuador, xxviii. 346,

Curiosity Peak, North Australia, xxviii.

CURRENTS, OCEANIC, and their Connexion with proposed Central American Canals; by A. G. Findlay, xxiii. 217. —, Arctic, round Greenland. By Capt. E. IRMINGER, Danish Navy, xxvi. 36.

vol. xxvi. p. ccxxxii.—in Red Sea, xxiv. 232—in Indian Ocean, 234 off South African Coast, xxv. 259—in Arctic Sea, xxvi. 26, 33—from Baffin's Bay along Labrador, xxvi. 43—and Winds, xxvii. p. cxxxiv—of Sea of Azov, xxvii. 146—Ŝouth Eastern Current of South Atlantic does not produce effects ascribed to the Gulf Stream, xxvii. 213—Findlay's Charts of, xxviii. p. ccxiii.—of Mozambique Channel, xxviii. p. cevi.; xxix. 32 on shores of Black Sea, xxx. 168.

Curribubula, New South Wales, xxii. 230.

Cutch, Runn of, xxiv. 235.

Cuti River, South Central Africa, xxx.

Cuto or Nactu (the Khutu of Burton, q. v.), xxiv. 266, 268.

Cutonge (Katongo, q. v.) South Central Africa, xxx. 136, 139, 140.

CUTUPE River, South Central Africa, ib.

CUZCO.

Cuzco, Peru, mountain knot of, xxvi. 222—City, 218 — Department, 220, 226.

CYCLONES and their TRACKS, On. By Captain Alfred Parish, xxvi. 154.

Cyclonic Hurricanes in West Indies and North Atlantic, CHRONOLOGICAL Table of Four Hundred, with Bibliography of Accounts of Hurricanes, &c. By Andres Poey, of Havanna, xxv. 291.

CYCLOPEAN Masonry at Milo, xxii. 211, 217.

Cydamus (Ghadamis in the Sahra), xxx. 256.

Cynuria, Peloponnesus, xxvii. 50.

Cypress, Weeping, in Chusan, xxiii. 251.

- Hills, British North America, xxx. 289.

Cyprus, Adders in, xxii. 224—Inscriptions, ib. Cyrus, Tomb of, xxvii. 153.

- River, or Kur, xxi. 2, 3, 6, 7. CZAR, Islands of the, discovered in Aral, xxiii. 94, 97.

D.

Da Silva, Galvao, Journey of, to Manica Gold-Fields, &c., in 1788, with Description of the country south of the Lower Zambezi. By James MACQUEEN, XXX. 155.

DABA, in Tibet, xxiii. 13, 16, 25, 32, 33.

DABEN 'Norup Hill, Orange River, xxviii. 171.

Dabus Norup Hill, ib. 177.

Dagbo, Chadda River, xxv. 113.

Dagigo, Amur Land, xxviii. 382.

DAGUMBERAZUN, Fars, xxvii. 113.

Dahman Oasis, in Tripoli, xxii. 132. Dahna, name of sandy tract in North Central Arabia, xxiv. 139, 167, 169-

172, 187, 193. See Nufudh. DAHOME, Kingdom of, xxx. 122. DAHUR Sibad, Tripoli, xxiv. 276.

Dakhobad, Nain, Persia, xxv. 13.

Dalai Lake, Mongolia, xxviii. 414.

Daldeni, Manchuria, xxviii. 409.

Dalki, Fars, xxvii. 115.
Dallas, His Excellency, G. M., acknowledges Medal on behalf of Dr. Kane, xxvi. p. clxvi.—and that to Professor Bache, xxviii. p. cxix.

Dalrymple, Alexander, his contributions to the Geography of Burma, xxvii. 54, 55.

DAR.

Dalrymple's Island, Baffin's Bay, xxvi.

Dalton, Traveller in Borneo. See under Crawfurd, xxiii. 71—85.

Dalydag, Armenia, xxi. 3.

Dama, Lejah of Bashan, xxviii. 259.

Dambool, Ceylon, xxvii. 329.

Damaras of South-West Africa and their country—their country has been described by Missionary Kolbé, xxi. p. lxxxvii.; xxii. 141 seqq.—manifold names of all places in their country, 143; the name of, unknown to the people themselves, ib.—characterized, 156, 159—Ethnology of connected Tribes, 156—Grammar and Dictionary of their Language, 165; xxv. 83, 85, 88 — Ghu Damop or Hill Damaras (so called) xxii. 156; xxv. 91 — Vocabulary of Otjiherero (Damara) Words, xxv. 96.

Damascus, xxiv. 28 — how named in North Arabia, 150—Rivers and Lakes of, xxvi. 43, 47, 48; also xxviii.

230.

-, Hauran, and Lebanon Memoir on Map of. By the Rev. J. L. Porter, xxvi. 43.

Dammara Tree, Fiji, and its gum, xxvii. 246, 249.

Damur River, Syria, xxiv. 2.

Dana River, East Africa, its source among snowy mountains, xxiii. 118; xxx. 130.

Danau Malayu, Lake in Borneo, xxiii.

Dances in Vancouver Island, xxvii. 296—East African, xxix. 369.

Daniel the Prophet, Tomb of, xxvii. 111—quoted as to the *Ulaï* or *Eulæus*, ib. 124.

Danish hospitality to Dr. Kane's party, xxvi. 17.

- Greenland Fleet in 1777, its wreck and drifting, xxvi. 33.

Dantalawa Tank, Ceylon, xxvii. 342.

Danube, Route between Kustenje and the, on the Karasu Lakes, &c. By Capt. T. Spratt, R.N., xxvi. 203.

jor J. Stokes, R.E., XXX. 162. By Ma-

—, Alexander's Expedition to. See Jochmus, xxiv. 81; xxvii. 220.

D'Anville on the Irawadi, xxvii. 54.

Dar of Tibet, or sporadic low-lying beds of frozen snow, xxiii. 54.

DAR Barra, a district south of Dar Fur, xxiii. 120.

- Ming, a Pagan country, south-west of Dar Fur, ib.

DARAB.

Darab, Darabjerd, South Persia, xxvii. 157, 158.

DARAHA River, Tributary of Rio Negro, xxiii. 213.

Daraku, Fessa, South Persia, xxvii.

DARB Almagharbe, "The Road of the Westerns," Suez Desert, xxiv. 116.

- el Sharki, "The Eastern Road," from Medina to Mecca, xxv. 121 seqq.

Darbinyah Kotah, Ruins in Somal Country, xxv. 141.

DAREN Australians, Western Australia, xxvi. 236.

Darepoort, Transvaal, xxii. 138.

Darestan, Kuman, Persia, xxv. 63.

DAR FUR, Routes in, sent by Dr. Barth, xxiii. 120—Notices of, and vast ruins said to exist in, xxv. p. cxxi.; xxx. 121, 123.

Darien, Isthmus of, Proceedings of COMMANDER PREVOST'S Exploring

Party, xxiv. 249.

, Summary of Report on Survey of. By Lionel Gisborne, xxvii. 191. -, Schemes for crossing, xxiii. p. exix.—and see Fitzroy, xxiii. 171— Friend, xxiii. 191—Kelley, xxvi. 174— Exploration of, xxiv. p. c.—Coast Surveys, xxv. p. ciii.; vol. xxv. p. cxxvii.
—Harbour, xxvi. 178; xxvii. 197, 202—Old Passages of, xxvii. 197.

Darien, Shiraz, Persia, xxv. 77.

Darius, Search for Inscription of, on the *Tearus* in Rumilia, xxiv. 44— Tumuli of, on the Artiscus, ib. 47, 55, 82.

Darjeeling, Proper form and meaning

of the name, xxiii. 2, 4.

Darling River, Australia, xxv. 177, 179-181.

Darobel, New South Wales, xxii. 270. Darimouth, Earl of, Obit. Notice, xxv. p. lxxxvi.

Daryah-i-Namak, or Salt Lake, near Shiraz, xxvii. 150.

Dashwood and Mitchell's Expedition in Middle Island, New Zealand, xxi.

-, Captain, captures Fort Barbara, Samana, San Domingo, xxiii.

DATES; Trees in Makololo country, xxii. 167—in Al Jauf, North Arabia, their excellence and variety, xxiv. 149—Cultivation of, in Aja and Selma, Central Arabia, ib. 198—the Tree, its growth, fruit, and uses, xxv. 23.

DATURA Stramonium, smoked medicinally in East Africa, xxix. 79.

DE GREY.

Dauen, Amur Land, xxviii. 441. Daule River, Ecuador, xxx. 65.

Daumat al Hirà, in Irak, xxiv. 153.

- al Jandal, name of al Jauf, North Arabia, among the Arab Geographers, xxiv. 145—Origin and history, 152-157.

Daumeh (Eduma), Palestine, xxiv.

18.

Daurian Steppes, ib.—desiccation of their Lakes, 415.

Dauro-Mongolian Frontier of Trans-Baikal Regions, by M. G. Radde, xxviii. 411 seqq. See Amur.

Daurs and their Country, on the Amur,

xxviii. 383, 392, 412, 445. David Province, Central America, Survey of, xxvi. p. ccxxii.

DAVIEEP, Walfisch Bay, xxii. 145.
DAVIS, Sir John F.; Chusan, with a
Survey Map of the Island, xxiii. 242 -its importance; history, 243-extent; Tinghae, the chief town; chief valleys, 244—crops, 246—streams, 247 — floods; climate; productions, 248—fish, 249—reptiles, 250—useful trees and fruit-trees, 251 — Flora; tea-plant, 252—rice culture; millet, 253—wheat, &c.; vegetables; cotton, 254 — grass-cloth plant; Tinghae; harbour, 255—Seaousha; the people; clothing; food, 256—population, 257 —customs, 258 — character, 259 —religion; Taou priests, 260 agricultural customs; manures, 261; manufactures; trade, 262 — fishing craft; exports; civil and military establishments, 263—British rule.

, Lieut. C. H., U.S. Navy, on Tidal Geology, cited, xxi. p. xcii.his observations on Gulf Stream,

xxiii. 220.

-, Jefferson, xxix. p. ccvi.

Dawson's Expedition in North-West America, xxx. p. elvi.

- River, North-East Australia, xxviii. 129.

Day's Journey in Arabia, xxv. 123.

DAYMAN, Lieut., Discovery of a bank off Algoa Bay, by, xxv. p. ci.

DE BANKE, Little Bushmanland, xxviii.

DE BARROS, the Historian, cited, xxix. 49, 50—on the African Lakes, 249; xxx. 119.

DE BEAUMONT, Elie, Mountain Systems of, xxiii. p. ci.

DE FOREST, Dr., American Missionary at Beirut, xxiv. 1, 4, 27.

DE GREY and Ripon, Earl, xxix. p.

DE KOP.

cexxiii. — his Presidential Address, 1860, xxx. p. c.

De Kop, Bushmanland, xxviii. 166.

DE LA BECHE, Sir Henry T., Obit. Notice,

xxv. p. lxxxi.

DE LA FUENTE, Don M. B., Observations on the Province of Tarapaca, xxvi. 229 — Rainless character; Iquique, the chief port, supplied by distilled sea-water; silver mines; nitrate of soda, the present staple, 230—Details on that Trade; borate of lime, 231 guano; agriculture and irrigation; Iquique, 232.

DE Luc and Melville on Hanibal's Pas-

sage of the Alps, xxv. 183.

DE MAULEY, Lord, Obit. Notice, XXV. p. xcii.

DE SAULCY, M.; errors in Comparative Geography, xxvi. 45, 60 — his supposed Gomorrah, 69—obstacles caused

to later travellers by, xxviii. 253. DE SAUSSURE, HENRY, Excursion to an Ancient Volcano in Mexico, xxx. 53 — Mechoacan; Volcano of San Andres, 54—sulphur works of Saripeo, 55, 56—steam-spout, or geyser, 57; singular crater.

DE TESSAN, Observations on Pacific cur-

rents, xxiii. 224, 228-9.
Dead, Disposal of the; among Dyaks, xxiii. 78 — in Jimma, xxv. 212among Vancouver Indians, xxvii. 301 —of the Wazaramo, East Africa, xxix. 66—of the Wanyamwezi, ib. 199—of the East African tribes generally, ib. 341.

Dead Sea Basin, attempt to account for appearances of Violent Drainage on sides of. By Capt. W. Allen, R.N.

xxiii. 163.

-, its depression, &c. See Poole, xxvi. 58 seqq.—wild fowl on, 60, 63, -fish, supposed, in, 61, 67—variation in level of, 64—former ford over, 65 -ruins on, 55 seqq.

DEADMAN River, Rocky Mountains, XXX.

296, 314.

Deadwood, St. Helena, xxx. 264.

Dean's Dundas Island, Arctic Sea, xxvi.

Dease River, Great Bear Lake, xxii. 96, 187.

- Strait, Arctic Sea, xxv. 203; xxvi. 27.

Debacles in Tibet, xxiii. 55—of 1835, iv.—in 1839, 57.

Debba, Negroland, xxiv. 286.

DECASTRIES Bay, Amur Land, xxviii. 388, 399,

DEPOPULATION.

Dedebae, Debae, Dahab, Hijaz, xxiv. 213.

Deep Sea Soundings, xxviii. p. ccxiv; xxx. p. cxxxv.

- River, British North America, xxii. 183.

Deer in Arctic Regions, xxii. 91, 59, 123.

- Lake, British North America, xxii. 183.

Deflexion of Plumb-line, xxvi. p. exc. Dege la Mhora, East Africa, xxix. 70, 71, 95, 96, 99.

Deн Chinar, Kerman, Persia, xxv. 27. - Nuh Balla, Kerman, Persia, ib. 66.

- Nuh Pain, Kerman, Persia, ib. – Pish, Kerman, Persia, ib. 50.

Deir 'Ali, near Damascus, xxviii. 232.

— el Ashayer, Antilibanus, xxiv. 28. — el Ghuzal, Cœle Syria, ib. 31. — el Kul'ah, Lebanon, ib. 1, 27. — en Nasrani, East of Bashan, xxviii.

239, 255.

- Jerir, Palestine, xxiv. 18. Dejal, the Moslem Antichrist, xxiv. 43. Delagoa Bay, xxii. 139; xxiv. 289. Delgado, Cape, East Africa, xxix. 30. Delirio Mines, Atacama, xxiii. 203. Della Valle, Pietro, quoted, xxx. 207. Delphi captured by Brennus, xxvii. 13. Delphi of Tigris and Euphrates, Extraordinary increment of, xxi. p. lxxx.; see also xxvii. 185 seqq.—of Irawadi, xxvii. 80—of Danube, see Stokes, xxx.

162. Demawend, Mount, in Persia, xxi. 4; xxv. 5—Ascent of, xxix. p. clxix. Demchok on Indus, Tibet, xxiii. 38.

Demircapir Pass, Balkan, xxiv. 66.

Demojones, Tibetan name of Sikkim, xxiii. 2.

Demonology in East Africa, xxix. 341. Denham, Capt., R.N., Deep-sea soundings by, xxiii. p. cxxxiv. 236—Surveys in Pacific, xxiv. p. xc.; vol. xxv. p. cii.

Denison Plains, North Australia, xxviii.

Denman, Hon. Capt., R.N., on Dahomé, &c., referred to, xxii. p. cxviii.

DENMARK, Geographical Work of, reviewed, xxii. p. xcvii.; vol. xxvi. p. ccv.

Density of sea-water, xxiii. 235.

D'Entrecasteaux on Pacific currents, xxiii. 226.

Denun, near Ispahan, xxv. 10.

Deodar Tree, xxi. 76.

Deone, Lake, Bulgaria, xxiv. 79, 80. Depopulation of Central China by the

DER'A.

Rebellion. See Oliphant and Blackney, xxx. 75, 93—of Shan States, xxvii. 104—of Ceylon, ib. 329 seqq. —of Trans-Jordanic Regions, xxviii. p. clxxxi.; of Cambodia, xxx. 193.

Der'a (Adraa), Hauran, xxvi. 51.

Derakht Anjan, Kerman, Persia, xxv.

Derby, Earl of, Obit. Notice, xxii. p.

Derge, Oasis in Ghadamis, xxii. 135,

136; xxx. 255, 257, 258. Der'iye, Central Arabia, former Wahabi capital, xxiv. 141, 180, 197.

Derribong, New South Wales, xxii.

Dervish, Bed of the, near Red Sea, xxvi. 59.

Desaguadero River, Peru, xxvi. 211.

Desagüe, San Salvador, xxviii. 352. DESAINT, Lieut.-Col. J., of the French

État Major, Journey between Kustenjé and Danube. See Spratt, xxvi.

Desert of Atacama and South Peru, xxi. 100 seqq.; 126 seqq.; xxiii. 197; xxv. 163. —— Character of Northern Chilé, xxvi. 161. —— do. of Patagonian coast, 162. —— do. of Peruvian coast, 211. — Great, of Arabia, (Wallin), xxiv. 116 et seqq. passim, 208. —, Travelling in, Wallin, xxv. 263 seqq. — of Sahra, xxi. 135, and see Sahra. — of Kalahari, xxii. 164; xxv. 101; xxvi. 85; and see Kalahari. — of Aral, xxiii. 97 seqq. — of Yezd, xxv. 19 seqq. — of North Central Australia, xxviii. 49, 58. — East of Hauran, see Graham, xxviii. 226 seqq. North of Marenga Mkhali, xxix. 139, 145 *seqq*. ——, Arabian and Tyrian, xxx. 198 seqq.

Desmond, Mount, West Australia, xxii. xxix.

DETENTION Harbour, Arctic Sea, xxii. 84.

Devil's Bite Mountains, Yangtsekiang, xxx. 88.

Grip, Middle Island, New Zealand, xxi. 30.

Thumb, Baffin's Bay, xxiii. 138. Tree, an East African superstition, xxix. 345.

Dhafir, Bedawi Tribe, xxiv. 168. See

Dhefyr.

Dhauli, Ganges feeder, xxi. 64, 70. DHEFYR Arabs, xxvi. 149. See Dhafir. Dhu'l Karnein, alleged sepulchre of, at Al Jauf, North Arabia, xxiv. 146.

DIODORUS.

Diambo todthu, Mountain in Damara Land, xxii. 143.

Diamond Mines of Borneo, xxiii. 73 largest known stone from these, 74.

Diana's Peak, St. Helena, xxx. 264.

DIBAYEN, Burma, xxvii. 73.
DIBBARIEH, near Samaria, xxiv. 10.
DICKSON, VICE-CONSUL C. H., Extract from Report of his Journey from Tri-POLI to GHADAMIS, XXII. 131—Map, how constructed; Route not before traversed by Europeans; Zanzour, 132—Zawia; Jews; introduction of silk-worms; Wady Ethel, 133—the Jebel; a continuation of Atlas; highest peak; Troglodytes of Zinten; population of Jibel, 134—detail of its districts; three classes of natives; products; Roman remains and epitaph, 135—the Sahra; animals; the Hamada or Table land; the Oasis of Derge; names and products; payment to Tripoli; Wady Atlaf, Shaabeh, Krub eminences, 136—Shaanbah robbers; Ghadamis; concluding remarks; shells, &c.

-, Account of GHADAMIS, XXX. 255—its Oases; the Sahra, 256—Ancient Cydamus; Berber origin of people; the Spring, and tradition of its discovery; analysis of the water, 257—population, government; mosques and schools; agriculture, 258 — sale of water; truffles; climate, 259—freedom from pestilence; revenue; commerce; rates of carriage, 260—Slave Trade; abolition.

Diebitch's Turkish Campaign, Traces of, and Notes on (Jochmus), xxiv. 36-85.

Diego Garcia, Chagos Islands, Indian Ocean, xxvi. 186.

DIET of East African Tribes, XXIX. 363.

Dik-Klip, near Orange River, xxviii. 161.

DILOLO Lake, South Central Africa xxv. 224—discharges in two different directions, xxvii.351-353, 355 (printed Dililo); xxx. 152.

DILLON'S Observations on Tidal Streams, xxiv. p. xc.

Dimas, near Damascus, xxiv. 28.

Dimitilli Tank, Ceylon, xxvii. 330.

DINDIN, a people of Central Africa, said to live in trees, xxi. 199.

Dioceses of Peru, xxvi. 220.

Diodorus concerning the Eulæus, xxvii. 124, 126, 132.

DISASTER.

DISASTER, or Albert River, North Australia, xxviii. 101.

Disasters to Australian Expeditions from Natives, xxii. 58.

DISCHARGE of Danube, xxx. 160.

Disco Island, Greenland, xxiii. 137; xxviii. 278.

DISCOVERY, Favourable field for, in East Africa, from Mombas, xxiii. 119.

- Passage, Vancouver's Island,

xxvii. 269, 276.
Diseases of East Africa, xxix. 39-42, 61, 106, 142, 174, 386.

DISTANCES, Popular Oriental measures of, xxiv. 215.

— accomplished daily by Furious up and down the Yangtse-

kiang, xxx. 92. Distomosis of Rivers in Tibet, xxiii. 50. DIURA, or "Convents," a ruin near

Damascus, xxviii. 230. DIVERSITIES of Climate in Western Tibet, xxiii. 58.

Divination, Caffre, xxx. 243.

DIWANIEH, on Lower Euphrates, xxvi. 139, 141.

Diz River, Khuzistan, xxvii. 120, 126. DIZFUL, Town and River, Khuzistan, *ib.* 109-111, 128.

DJAHALINS, Arab Tribe, in South Palestine, xxvi. 59.

DJAI, Amur Land, xxviii. 438.

DJALTULA River, Amur, xxviii. 428.

DJANGDJU, Lower Amur, xxviii. 385. DJERMA, Fezzan, xxiv. 279.

DJIN, Chadda River, xxv. 119.

DJUBKOKHIN River, Amur, xxviii. 426.

Djujur River, Amur, xxviii. 422.

Djukdjurski Ridge, East Siberia, xxviii.

Dobral, Balkan, xxiv. 54, 57.

Dobrudsha, Bulgaria; see Spratt, xxvi. 203; xxvii. 220, 223—Mountains in, xxx. 165.

Dochen, Manchuria, xxviii. 409. Doengo Engai Mountain, near Kilimanjaro, xxix. 284.

D'Ogeron's Settlement at Samana, San Domingo, xxiii. 265.

Dog Lake, British North America, xxx. 269.

Dogs; in Central Arabia, xxiv. 189-Sledge with Kane, xxvi. 4, 13—Great Yunan, xxvii. 100—Wild in Unyamwezi, xxix. 175—in East Africa, ib.

Doku-su, Dobrudsha, xxvi. 206. Dolen, Amur Land, xxviii. 439. Dolet Agach, Rumilia, xxiv. 46. Dollars at Zanzibar, xxix. 422.

DRACH.

Dollond, George, Obit. Notice, xxiii. p.

Dolman, Alfred, and Gassiott, Journey in South Africa, xxi. p. lxxxvi.

murdered in South Africa, xxii. 137.

Dolphin and Union Strait, Arctic Sea, xxv. 200.

Doma country, Chadda River, xxv. 113. Dombuko Mountains, Amur, xxviii. 428. Dominican Republic. See Schomburgk, xxiii. 264 seqq. Don River, xxvii. 146.

Dondon-bira River, Amur, xxviii. 440. Donegal Coast Survey, xxvi. p. exciv. Donetz River, Don delta, xxvii. 146.

Dongphyaphai, "Forest of the King of Fire," xxvi. 73.

Dongnai, Cambodia, xxx. 182.

Donoso's attempt to survey in Darien, xxiii. 178.

Fontein, near Head of DOORNBERG Orange River, xxviii. 155.

Dorak, East of Persian Gulf, xxvii. 109. Dorey, New Guinea. See Wallace, xxx. 172 seqq.

Dorinet River, Upper Savoy, xxv. 186,

Dorissa, Laconia, xxvii. 52, 53.

Doron River, Upper Savoy, xxv. 186.

Dorsetshire Coast Survey, xxvi. p. exciii.

Dothan of Scripture, xxiv. 9.

Douglas, Governor James, Report of Canoe Expedition along East Coast of Vancouver's Island, xxiv. 245-Passage through Arro Channel; Cowichin Indians, 246—Chemanis River; Nanaimo Indians; coal found, 247—probable extent; need for surveys of Arro Channel; Wenthuyzen Inlet, limit of exploration, 248—traces of iron and copper; gold diggings on Queen Charlotte Islands. Note on gold discovery by Capt. Rooney.

-, xxvii. 320. - Island, Arctic America, xxii. 74, 77, 95.

Dourga River, New Guinea, or Princess Marianne Strait, xxviii. 265.

Douro, Forrester's Map of the, xxv. p. cvi.

Dove, his Charts of Temperature, xxiii. 231, 232.

Dove Island, Torres Straits, xxvi. 184. Dove, H.M. Gunboat, xxx. 94 seqq. Dove's dung of the Levant, xxii. 223. Dowlatabad, Kerman, Persia, xxv. 58.

Drach, S. M., Note on the Jewish Set-

DRAINAGE.

tlement at Kaifongfu, in China, xxviii. 297.

Drainage System of Himalya, xxi. 65.

- of Tibet, xxiii. 36.

Drake, his Voyage to the Spanish Main, xxiii. 179.

Drakenberg Mountains, Natal, xxii. 138; xxiv. 290; xxx. 233.

Drakonera, Mount, Marathon, xxvii.

Dras, in Ladak, xxiii. 14.

Dredging on Voyage to Algoa Bay, xxv. 257.

Drift Current, xxiii. 218.

of Ships south-eastward out of the Arctic Sea, xxvi. 33.

Drinking Bouts in East Africa, xxix. 372.

Drinkwater Point, Yangtsekiang, xxx.

Drinks, East African, xxix. 366.

Dripping Cellar, stalactite cave, Trans-

vaal, xxx. 244, Drippings, Valley of, Dead Sea, xxvi. 59, 66.

Druid Mount, Darling River, Central Australia, xxii. 267.

Drummond on Plants gathered by Austin's Party in West Australia, xxvi. 272.

DRURY, Capt., New Zealand Surveys of, xxi. p. lxvi.

Druzes in Hauran, xxviii. 233 seqq.—

special note on, 262 seqq.
DRY winds. See Hopkins, xxvi. 158. Dryness of Ladak, extraordinary, xxiii. 66—of Atacama, xxv. 170—causes of in certain arid countries. See *Hopkins*, xxvi. 158—of trade winds at their origin, xxviii. 365 seqq.

DSAMBA or Samba Mountains, South

Central Africa, xxiv. 271, 274.

Du Deh, Shiraz, Persia, xxv. 47-49.

Dubbak Valley, Palestine, xxvi. 57.

Dubbelte Berg, Transvaal, xxx. 250.

Duburquois, Explorations in Western

Africa of, xxi. p. lxxxv. Du Chaillu's African Explorations, xxx. p. clxvi.

Duckett, Sir George, Obit. Notice, xxviii. p. exxxiii.

Duendes and Tocopillo, South Peru, Coppermines of, xxi. 107.

Dugong in Shark's Bay, West Australia, xxvi. 271.

Duhalde's 'Chinese Travellers through Laos,' xxvii. 106.

DUKINFIELD, Rev. Sir Henry, Obit. Notice, xxviii. p. cxxxii.

DUTHUMI.

Dulbahantas Tribe of Somal, East Africa, xxv. 137.

Dulce Nombre de Jesus, San Salvador, xxviii. 350.

- de Maria, San Salvador, ib.

Duliasmi River, Amur Land, xxviii.

Dulti, Adamawa, Central Africa, xxv. 119.

Dum Palms, xxi. 137.

Dummar, near Damascus, xxiv. 29.

Dumoos and Dunos, Races of East Burma, xxvii. 92.

Dumoulin Islands, Torres Straits, xxi. 17.

Dun, Manchuria, xxviii. 409.

Dunavitza Stream, Danube delta, xxx.

Dundas Strait, North Australia, xxviii.

Dundun, Amur, xxviii. 439.

Washington Dungeness, Territory, xxvii. 318.

Dungomaro River, East Africa, meaning of name, xxix. 122, 123.

Duns, or Valleys at base of Himalya, xxi. 59.

Duperrey, cited on Pacific currents, xxiii. 227, 233.

DUPETIT Thouars, on Pacific currents, xxiii. 231.

Duraji, on Lower Euphrates, xxvi. 148,

Duran, Durine, Ancient Emporium and City of Chaldaa, xxvii. 185, 188.

Durand, Col. H. M., xxvii. 82.

Durango Province, North-West Mexico, xxx. 6, 11. D'Urban, Natal, xxii. 138.

Durbez-Zuar, Palestine, xxvi. 57.

Durine. See Duran.

Durkestan, old mouth of Karun, xxvii. 190.

Durr, Fars, xxvii. 112.

Dushmenzeri, Fars, ib. 114.

Dusht-i-Argin, Fars, ib. 117.

Dusky Bay, New Zealand, xxviii. 316.

DUTCH Expedition to New Guinea, xxi. 18. — Boers, their opposition to and hatred of English, xxii. 140, 141. See Boers. —— Government monopoly of diamonds in Borneo, xxiii. 74. -- claims to New Guinea, xxx. 176.

—— at St. Helena, xxx. 262.

Duties from merchants in Abyssinia, xxv. 216.

DUTHUMI Hills and district, Lake Route, East Africa, xxviii. 221; xxix. 59, 66, 69, 71, 73-78, 96, 107, 112.

DWAAL.

DWAAL Berg Kolk, South Africa, xxviii.

Dwars Berg, Transvaal, xxx. 246, 250. DYAKS of Borneo, the race and their customs, &c. See Crawfurd, xxiii. 76-82.

Dyewoods of Burica, Panama, xxiv. 257.

DYKES in Atacama mines, Effect of, xxiii. 201.

Dzuga River, South Africa, xxv. 85. See Zouga.

E.

EAGLE Island, North-East Australia, xxviii. 6.

— Hills, British North America, xxx. 281, 284, 309, 312.

EAR Hills, British North America, xxx.

Earl, Windsor, quoted, xxi. 18.

Earth eaten by Cattle, Jimma, East Africa, xxv. 210—by people of Unyamwezi, xxix. 201-2.

EARTH-NUTS, XXIX. 400.

EARTHQUAKES in Arequipa and South Peru, xxi. 101, 111, 126—felt at bottom of a mine, 126—in West Tibet, xxiii. 58—in Namaqualand, xxv. 103—at Jerusalem, 1855, xxvi. 56—in Peru, xxvi. 217—in Bechuana country, xxvii. 363.

- and their study, xxix. p. clvii.

Ebony, so called, of Zanzibar, xxix. 447—St. Helena, xxx. 261.

Есно Glen, West Australia, ххіі. 38. Eclipse, Total, of 1858, xxviii. p. cliii.

Ecuador, Explorations in, in 1856 and 1857. By George James Pritchett, xxx. 64.

· Republic of, present, formed part of the Incas' dominions, xxvi. 210.

ED-Dahar Ridge, Coele Syria, xxiv.

Ed-Deir, Trans-Jordan, xxiv. 21.

Edhra (Edrei), Lejah of Bashan, xxvi. 52; xxviii. 259, 260.

Edmonton House, British North America, xxii. 182.

EDO or Ado Territory, Kwora River, xxv. 112.

Edwards, Mr., companion of Moffatt to Moselekatsć's, xxvi. 85 seqq.

Amory, Account of Lake Yojoa by, xxx. 59 seqq.

EL KEFR.

EEBEKEH, or the Four Villages, South Persia, xxvii. 172.

EEL-CATCHING, Otago, xxviii. 302. EEL Begghi, Ruler of Nomad tribes in Fars, xxvii. 168 seqq.

Eeliats. See Iliyats.

EENRIET Kloof, Little Namaqualand, xxviii. 127.

EESA clan, south of Zayla, East Africa, xxv. 137, 138, 140.

Effluvium of negro race, xxix. 317.

— ascribed to sojourners in Unyamwezi, xxix. 175.

Effon, Yoruba, xxx. 222, 231. Eggé, Yoruba, *ib*. 225.

Egan. See Egga.

Egerton, Mount, Chadda River, xxv.

Egga or Egan, Niger, xxx. 227.

Eguden Kalka, Mongolia, xxviii. 378.

EHDEN, Lebanon, xxiv. 34.

EHRENBERG on origin of name "Red Sea," xxiv. 229.

EIKHAMS, Damara Land, xxii. 142, 152. Eis, Orange River, xxviii. 178.

Ејева, Nupé, Niger, xxx. 226.

Eјево, Yoruba, ib. 212.

Ejo, or Oru district, Kwora River, xxv. 110.

EKPE, Yoruba, xxx. 214.

El Asa tribe, in Tripoli, xxii. 132.

El Azrat, mound in Babylonia, xxvi. 144.

EL BIRKAT, ("the tank"), Pilgrims' Road in Hejaz, xxv. 129.

El Bukeià, Lebanon, xxiv. 33.

El Carmen, silver mines, South Peru, xxi. 109.

EL FUERTE and River, North-West Mexico, xxx. 6, 7, 10, 12, 14, 16—the town, 17-19, 28, 34, 37, 39, 44, 45.

El Fijèh, fountain in Antilibanus, xxiv. 29.

El Gharga, Tripoli, xxii. 132.

El Guacamayo, Ecuador, xxviii. 339. EL HAMRA, North of Medina, xxiv. 218, 219, 221.

El Harrah. See Harrah.

El Harshia, oasis in Tripoli, xxii.

El Hofrah copper-mines south of Dar-

fur, xxiii. 120. El Hosn, (Gamale), Lower Tiberias, xxviii. 261.

EL Husn, fortress in Ansariyeh Mountains, Syria, xxiv. 33.

EL HYMAR, Babylonian mound, xxvi.

132, 138. El Katif, Persian Gulf, xxiv. 180.

El Kefr, Syria, xxiv. 29.

EL KHAYF.

EL KHAYF, on road to Medina, xxiv.

El Khureibeh, Galilee, xxiv. 23.

El Kuleib, Peak in Bashan, xxviii. 245. El Lisan, Peninsula in Dead Sea, xxvi.

62, 63, 66.

EL MINA, Gold Coast, xxx. 126.

El Mughar, Galilee, xxiv. 7.

EL MUGHATYIR, Palestine, xxiv. 18.

EL Nur, Sheikh of Kelours, xxi. 134.

EL PARRAL, North-West Mexico, xxx.

EL Paso, North Mexico, ib. 30.

EL PRINCIPE, Spanish Fort in Darien, xxiii. 180, 181.

El Sath, Wadi Araba, xxiii. 168, 169.

El Tih, meaning of (Burton), xxiv. 212.

EL Wasitah. "The Half-way" between Yambu and Medinah, xxiv. 218.

EL ZARIBAH, where the Pilgrim-dress is assumed, in approaching Mecca, xxv. 130, 131.

El Zueren, Dead Sea, xxvi. 60.

ELAND, The, xxi. 24.

—— River, tributary of the Limpopo, xxii. 138; xxiv. 289, 290; xxx. 236, 255.

Elburz Mountain, Caucasus, xxi. 2, 3, 7.

Electric condition of West Tibet, xxiii. 67.

Eleonora Peak, West Australia, xxii. 11.

ELEPHANT River, tributary of Limpopo, xxii. 139, 140; xxiv. 290.

- fountain, Damara Land; erro-

neously placed, xxii. 142, 152. Elephants; at Lake Ngami, xxi. 23— numerous on the Zouga River, xxii. 171—their existence in Borneo, xxiii. 75—Tusks, throne of, xxiii. 121—in Harar, xxv. 141-mode of killing on the Leeambye River, xxv. 220—their abundant domestication in the Shan or Laos States, xxvii. 93, 105—on the Zambesi, xxvii. 371—snares and chase of, in East Africa, xxix. 373—in East Africa, ib. 441—abundant domestication and low price in Cambodia, xxx. 178, 195, 196—tuskless, 197.

Elgi, North Arabia, xxiv. 134.

ELIABAD, Nain, Persia, xxv. 14.

Elias, Mount; on Milo, xxii. 202, 208,

210; on Santorin, ib. 209.

Elle de Beaumont. See De Beaumont. Elipeda River (Tanus), Laconia, xxvii.

Elk, on the Amur, xxviii. 420.

- River, British North America, xxii. 184.

· ENAREA.

Ellehara Canal, Ceylon, xxvii. 328, $334 \ seqq$

Ellen's Peak, West Australia, xxii. 53.

Ellesmere, Earl of; Presidential Address to the Society, 1854, xxiv. p. lxxix.—Obit. Notice, xxvii. p. xcvii.

– Island, Baffin's Bay, xxiii. 142.

- Range, Chadda River, xxv. 115.

North Australia, xxviii. 141.

Ellice Mountain, Arctic America, xxvi. 22; xxvii. 324.

Elliot, Captain, observations of Humidity, &c., in the Indian Archipelago, xxiii. 114.

- Isles, Queen Charlotte group, xxiv. 248.

-, Charles, Obit. Notice, xxvii. p. cxiv.

ELLOWAN, Captain, on winds in the Red Sea, xxiv. 231.

Elota, North-West Mexico, xxx. 8.

ELPHINSTONE, Lord, encourages Burton's Somali Expedition, xxv. 137; xxix. 9.

- Honourable Mountstuart, Obit. Notice, xxx. p. cvii.

Elsey, J. R., Report on the Health of the North Australian Expedition, xxviii. 135.

- Obit. Notice, xxviii. p. cxxxvi.

- Creek, North Australia, xxviii.

Elwes River, West Australia, xxii. 43. ELWHA River, Washington Territory, xxvii. 319.

Em Berghek, Dead Sea, xxvi. 60.

- Sirkan, ruins near Hebron, xxvi.

Emghedesie language of Agadez, Sahra, xxi 144—Vocabulary and Dialogues 154, 169.

Emigration of Bulgarians to Russia, xxiv. 62—of Swiss to America and Algiers, 314.

EMIR of Harar, xxv. 145 — Burton's presentation to, 147, 148.

Emir Nur, founder of Harar, ib. 144.

Emmaus (Amwas), xxiv. 11.

EMURI River, or Albaziha, Amur Land, xxviii. 379.

Emu, the, xxii. 242.

E'NAP River, Orange River, xxviii. 174. Enarea, South Abyssinia, xxx. 131, 133.

ENCLAVES.

Enclaves, Rocks of, Upper Savoy, xxv.

ENCOUNTER Bay, South Australia, xxv.

Endaugyee Lake, Burma, xxvii. 67. ENDEAVOUR Strait, North Australia, xxviii. 7.

Endia Siriani Mountain, near Kilimanjaro, xxix 284.

Eneze tribe of Arabs. See Aneza.

'Eneize Peak, near Jubbé, Central Arabia, xxiv. 162.

—, town of Alkasim, Central Arabia, ib. 204.

Enfad, well of, Tripoli, xxiv. 277, 281.

Engedi, Dead Sea, xxvi. 66.

England. See Ordnance Survey, Coast Surveys, &c.

Enniskillen, Mountain, Central Australia, xxii. 243.

Ensenado de Ladrillos, Port of Burica, Isthmus of Panama, xxiv. 256.

Enterprise and Investigator sent in search of Franklin, xxiv. 240.

- Proceedings of H.M.S. from Behring Straits to Cambridge Bay; by Captain R. Collinson R.N. xxv. 194.

Entrance Island, North Australia, xxviii. 11.

EPHRON and Abraham, truth to Oriental nature of the Dialogue between, xxviii. 248.

Epidemic horse-disease in South Africa, xxii. 174,

Equador Republic. See Ecuador.

EQUATORIAL currents and counter currents, xxiii. 218 seqq.

Erebus and Terror, last intelligence of, xxvi. 26. Also see Franklin, Findlay,

Erech of Scripture, xxvi. 148. Erekli, Rumilia, xxiv. 46, 52.

Ereskli, Balkan, xxiv. 66, 67.
Erezzo, Count F. Minescalchi, his
Review of Arctic Discovery referred to, xxv. exxiv.

Ergshesh, North Central Africa, xxx. 114.

Erhardt, Missionary, reports a great inland sea in East Central Africa, xxvi. p. eexiii—cited, ib. 115—his

xxix. 3. But see Mombas.

Erivan, winds at, xxi. 10.

Erkene River, (Agrianes), Rumilia, xxiv. 45.

Ermele, near the Dead Sea, xxvi. 59.

ESHON.

Erongo Mountain, Damara Land, xxii.

Erora River, Damara Land, ib. 147.

Erskine, Captain J. E., R.N. Proceedings at the South Sea Islands, xxi. 222.

Letter to the Admiralty, 222.

Samoan or Navigator Islands, 223 wars going on, and compensation for damage to European property; security of Europeans in these islands, 225—want of government; progress of Christianity, 226—mortality from whooping-cough; coco-nut oil, the staple, and admits of large increase; Roman Catholic missions, 227.

Friendly Islands; the king, George Tobou, 227—Wesleyan missionaries; regular government; proposed cession to England, 228—fear of the French; want of a Consul, 229—coco-nut oil; progress of Christianity; want of a

survey.

Fiji Islands; the Race, 230—Cannibalism, ib. 233—skill in useful arts, 230 — missionary stations; plots against them; complaint of Englishmen, 231, 232—practice of murdering wrecked crews, 232—exports, 233—

United States charts, 234.

New Hebrides, New Caledonia and Loyalty Islands, 234—mercantile importance; races; cannibalism; sandalwood trade; its secresy, and irregularities, and contraband features, 235 -affrays and excesses; list of known affrays in which life has been lost, 236—proposed visit to chiefs to check such things; visit to Tana and other Loyalty Islands and to Isle of Pines, 237—to New Caledonia; population of the Islands seems considerable, 238—English missionaries; Bishop of New Zealand's plans; French Roman Catholic mission in New Caledonia; some regulation on the islands wanted to prevent future trouble such as occurred in New Zealand; deficient hydrography, 239.

– xxi. p. lxxxii. ERUPTIONS, Volcanic, in South Peru, xxi. 101.

ERUPTIVE rocks of Tibet, xxi. 68.

Escape Rapid, Coppermine River, xxii.

Escayrac de Lauture, on Sudan, xxvi. p. cexii:

Esdraelon, Plain of, xxiv. 9. Eseji, Niger, xxx. 228, 229.

Eshon, Yoruba, xxx. 221, 225, 231.

ESMERALDAS.

Esmeraldas Province, Ecuador, xxx.

Esmok, Yunan, xxvii. 100.

Esperance Bay, West Australia, xxii. 22, 23.

Esperanza silver-mines in Atacama, xxiii. 202.

Espiritu Santo, Bolivia, xxiv. 260.

Esquimault Harbour, Vancouver Island,

xxvii. 269, 270, 273, 281.

Esquimaux; Interviews with (Rae), xxii. 78, 79, 84—(Inglefield) xxiii. 138, 140—(McClure), xxiv. 242, 243— 140 — (McClure), xxiv. 242, 243—(Collinson), xxv. 197, 200, 204—(Rae), 250, 254—(Anderson) xxvi. 21, 24, &c., xxvii. 321.

-; Differences among, and migrations of, xxv. 200 - customs, &c., ib. 201; information given by, about Franklin's party, xxv. 250, xxvi. 28, 30—relations of Dr. Kane's expedition with, ib. 6, 11, 12.

Es-Sahain, Canal in Babylonia, xxvi. 143.

Es-Sib, Canal in Babylonia, xxvi. 134.

Estañara of the Catalan expedition to Greece identified, xxiv. 49.

ESTCOURT, F. G., M.P., Obituary Notice, xxiv., p. lxxxiii.

- Maj.-General J. B. Bucknall, Obituary Notice, xxvi. p. clxxv.

Esteves Island in Lake Titicaca, xxvi.

Estrella gold-mines, Isthmus of Panama, xxiv. 257.

Esuri, Manchuria, xxviii. 409.

ETHAM, XXIV. 212.

ETHER, Chloric, congealed by natural cold on Kane's expedition, xxvi. 5.

ETHIOPE, Mount, Chadda River, xxv. 115.

ETHNOGRAPHY, Ethnology, and Statistics, Hints on collecting data regard-

ing, xxiv. 356, 358.

-; of Kumaon and Garhwal, xxi. 80-of Damara and Ovampo Lands, xxii. 156—of Arabia according to Burton, xxiv. 209—of Vancouver Island, xxvii. 293—of Indian Archipelago, xxviii. p. cxciii.—of North-West Australia, xxviii. 150—of Amur, *ib.* 392—of Eastern Equatorial Africa, xxix. 82, 308 seqq.—of Africa, xxx. p. clx.—of North Africa, see Barth, xxx. 115 seqq.

ETOSHA Salt-pan, Ovampo, South-West Africa, xxii. 151.

Eua, Eua-eki, Islands near Tongatabu, xxii. 98.

EZETABAD.

Eulæus, On the determination of the RIVER. By W. KENNETT LOFTUS, xxvii. 120.

- River, xxvii. 187, 189.

Euphorbia, Effect of certain species of,

on Water, xxix. 148.

Euphrates; as line of communication with India, xxiii. p. civ; xxvi. 134, 138-143, 148, 149, 151, 152—chronological succession of Emporia on, xxvii. 185–188—Island of Abadan in, 188—error of considering the Bamishir as bed of the Karun and not a branch of the Euphrates, 189.

Europeans in Borneo, mischief done by,

xxiii. 86.

Eurotas River, xxvii. 11.

Eva, Mount, in Laconia, xxvii. 34, 50.

Evans, Lieutenant, his published list of hurricanes, xxv. 292.

-, Mr., of Copiapo, xxiii. 204.

EVAPORATING power, Influence of, upon health, xxi. 9, 10.

Everest, Colonel Sir George, acknowledges medal to Colonel Waugh, xxvii. p. xcii.

—, on Instru-MENTS and observations for Longi-TUDE, for land Travellers, xxx. 315 -requirements should be reduced as much as possible; acquaintance with certain stars and planets; the altitude and azimuth instrument recommended, 316—form for lunars; instructions; double series, 317—computation; correction in Azimuth for moon's semi-diameter, 318—measurement of inaccessible distances, 321 —table of arcs with chords, sines, and cosines, 323—example of lunar, 324.

Exactions of native tribes inland from Loanda, xxv. 226.—from travellers in East Africa, xxix. 56—and see Burton passim in xxix.

Exaggeration as to numbers of ancient armies, with modern parallels, xxvii.

24 seqq.

Export trade; of Milo, xxii. 222; of East Africa, xxix. 434.

Exuмa, Bahamas, xxvi. 195, 199. EYRE, Colonel Vincent, xxix. 9.

— Mountains, Otago, xxviii. 308.

— Peak, Otago, *ib*. 324.

— Range, West Australia, xxii. 32. Ezetabad, Kerman, Persia, xxv. 64.

FABLES.

F.

Fables of Vancouver Indians, xxvii. 307.

FAHIL (Pella), Trans-Jordan, xxiv. 21. FAIR Haven, in Crete, xxiv. 238.

Fair at Ma'an in North Arabia, xxiv. 123.

Fairfax, Mount, West Australia, xxii. 68, 69.

FAKI, Rumilia, xxiv. 47, 48.

FALCONER, Dr. Hugh; xxi. 59—his unpublished explorations and researches, xxviii. p. clxxxviii.

FALKLAND Islands, xxvi. p. cci.

Falliyan, Fars, xxvii. 113.

Falls, Great Zambesi or Victoria. See Mosiaotunya and Victoria.

Famour, Lake of, Kazerun, Persia, xxvii. 183.

Fanar light, Sea of Azov, xxvii. 145. Fangan, Kwora River, xxx. 212.

Fanning Island, North Pacific, xxvi. p. cc.

FARI N' RUA, or "White Water," a name of the Kwora River, xxv. 112.

FARMER, one of Austin's party in West Australia, Death of, xxvi. 255.

——, Mount, *ib.* 256.

FARO River, Confluence of, with Binué or Chadda, xxv. 109, 119.

Farsakh (or Parasang), varying length of, in South Persia, xxv. 61.

Fassato, Jibal of Tripoli, xxii. 133, 134.

FATA River, South-West Africa, xxx. 161.

Fats-tse, Lower Amur, xxviii. 387.

Fauna; astonishing, of Upper Zambesi, xxiv. 300—of New Guinea, xxviii. 269. See Animals, Zoology.

FAW'WAR Canal, Babylonia, xxvi. 142.

FAYO, in Dar Fur, xxiii. 120.

FECUNDITY of East African Race, xxix. 311.

Feejee. See Fiji.

FEENAU, King of Vavau in Friendly Islands, xxii. 98.

FEID, in Aja and Selma, North Central Arabia, xxiv. 170, 197—Notices of, 202–204, 206.

FEIZABAD, between Tehran and Kum, Persia, xxv. 3.

Fellani Empire, Sudan; its Sultan and Provinces, xxi. 191, 192. —— or Fulbé Race, xxx. 118.

FENDAKER, Kerman, Persia, xxv. 38.

Ferashbund, Fars, xxvii. 179.

FERAT Misan, or Bahman Ardeshir, on

FINDLAY.

Lower Euphrates, its position and history, xxvii. 187, 188. FER'ATA (*Pirathon*), Palestine, xxiv. 10.

FER'ATA (*Pirathon*), Palestine, xxiv. 10. FERDINAND and Isabella give Columbus letters for Cipangu (Japan), xxvi. 195. FERGUSON River, West Australia, xxii.

56.

Ferhadabad, Shiraz, xxvii. 149.

Fernandina of Columbus, Bahamas, xxvi. 194.

Fernando Po, xxv. 109. Ferreiro, Major, xxvi. 122.

Ferro, Longitudes reckoned as from, are really reckoned from 20° west of Paris, xxiii. 96.

FERUZABAD, between Ispahan and Yezd, xxv. 18. See *Firuz*.

Feshark, Ispahan, xxv. 12.

Fessa, Plain of, east of Shiraz, xxvii. 153, 154.

FESTIVAL of Wild Tribes in Aracan, xxiv. 111.

Feth Negust, the code of Abyssinia, xxv. 216.

Fetichism, xxix. 338.

Fever, Fevers; at Lake Ngami, and effect of malaria, xxi. 20—effects of, in Milo, xxii. 221—at Zanzibar, xxiii. 108—deadly, of Bolivia, xxiv. 265—Makololo remedies for, xxiv. 296—repeated attacks of (Livingstone) xxv. 224, 228, 236—in Palestine, xxvi. 70—of Zanzibar coast, xxviii. 219; xxix. 13—of East Africa generally, and its treatment, xxix. 18, 39, 76—of Usagara, ib. 106—of Ugogo, ib. 142—of Unyamwezi, 175.

Ponds, near Zambesi, xxiv. 291, 301.

FEZZAN, xxiv. 276-280—worms of, 280;

XXX. 113.
Fibres and Basts, East Africa, XXIX. 386.

FIGURE of the earth, Columbus's ideas about, xxvi. 195.

Fiji Islands; Exploration of Rewa River, &c., in Na Viti Levu. By John Denis Macdonald, Assist.-Surgeon R.N., xxvii. 232.

chiefs at Tonga, xxii. 112, 114.

Fix, east of Tiberias, xxviii. 261. Fileposo, Atacama xxv 164

FILEPOSO, Atacama, xxv. 164.
FILING (Farang), Tibetan name for Europe, xxiii. 2.

FINDLAY, A. G. OCEANIC CURRENTS and their connexion with proposed CENTRAL AMERICAN CANAL, XXIII. 217. Rennell's labours, 217-18—features then established; difficulties left,

FINDLAY.

219—Arctic current; Gulf Stream; its bifurcation, 220—effects on climate, 221—the Guinea current, 222 -Paeific currents; Cold Antartic ditto; Great Equatorial ditto, 225anomalies among the archipelagoes, 226—Australian current, 227—current south of Van Diemen's Land; Northern Equatorial current; Equatorial counter-current, 229—Japanese current, ib.—currents on north-west coast of America, 232—Equatorial counter-current; causes; sub-surface currents, 236—prevailing winds, 237 —saving in a voyage by attention to current and great-circle sailing, 239 —report from Lieutenant Maury on extraordinary voyage of the clipper Sovereign of the Seas, from Sandwich Islands to New York, 240. See also xxiii. p. cxxxii.

FINDLAY, A. G., On the Probable Course pursued by Sir John Franklin's Ex-PEDITION, XXVI. 26. Contrast of North and South Polar currents; deductions as to northern currents and their effects; last sight of *Erebus* and *Terror*, and last certain intelligence; inferences from things found by Dr. Rae and by Capt. Collinson, 27—other supposed traces found by Penny and Goodsir, 27, 28—report of Esquimaux statement to Mr. Parker, of ships frozen up; the ships probably detained in Melville Sound, 29-reports from Kotzebue Sound, of small value, 31—information given to Dr. Rae, and further reasoning; credibility of the report of the two ships seen on an ice-floc on Newfoundland, 32—possibility that they were Franklin's, 34—which is supported as the probable view, 35.

; his eurrent charts, xxviii.

p. cexiii.

Finland, Gulf of, surveys of, xxvi. p. exevi.

Finlayson Islands, Arctic Sea, xxii. 84
—supposed trace of Franklin's ships
at, xxvi. 27.

xxvii. 272. Mr., Vancouver Island,

Finn, Mr. Consul, Jerusalem, xxvi. 56, 57

Fire-Arms; Effect of introduction of, among African tribes, xxii. 172—dreaded by Dyaks, xxiii. 80.

FIRE-TEMPLE, Firuzabad, South Persia, xxvii. 178.

Firing prairies, Mischief of, xxx. 286.

FITZROY.

FIRTH of Forth, surveys of, xxiv. p. xc.; vol. xxv. p. c.; vol. xxvi. p. exciv.; vol. xxvii. p. exxi.

Firuzabad, Fars, xxvii. 119, 174,

175.

Fish; of Louisiade Archipelago, xxi. 16—of New Guinea, ib. 18—of Lake Ngami, ib. 22—of Tibet, ib. 80—of Aral and Sir Darya, xxiii. 99—in Chusan, ib. 249—supposed, of Dead Sea, xxvi. 61, 67—in Victoria River, North-West Australia, xxviii. 149—in New Guinea, 270—leaping mudfish, 270—vast abundance of, in Amur, 387—of the Amur, 423, 442—of Lake Tanganyika, xxix. 243.

—— River, Inner Africa, xxii. 143. ——————————, Great. See Great.

Fisher Lake, Prince of Wales's Land, Arctic Sea, xxiii. 128.

Fisheries, on Lower Danube, xxx. 171—in Cambodia, ib. 185.

Fish-fences, Fiji, xxvii. 259.

FISH-HOOK thorn, of South Africa, xxii. 146.

FISHING party, Fiji, xxvii. 262. FITONGUARI, Negroland, xxiv. 285. FITTRI, Central Africa, xxx. 121.

FITZGERALD, GOVERNOR C., Expedition to Murchison River, Western Australia xxii. 71—the Governor wounded by a native, 73.

River and Inlet, Western

Australia, xxii. 43, 54.

Range, Northern Australia, xxviii. 40.

xxii. 11. Peaks, Western Australia,

FITZJAMES, Capt. J., Obit. Notice, xxv. p. lxxxvi.

FITZMAURICE River, North Australia, xxviii. 16.

FITZROY, Capt. R., R.N. Further Considerations on the Great Isthmus of CENTRAL AMERICA, XXIII. 171. Growing interest; effect of Australian golddiscoveries; seven distinct lines by rail or canal possible, 172:—1. Mexican line; 2. Nicaragua canals; 3. Costa Rica, 173; 4. Panama railway; 5. San Blas to Chepo, 174; 6. Isthmus of Darien; 7. Cupico and Atrato; —Humboldt's opinion, 175—explorations of Isthmus of Darien; difficulty in following modern explorations, 176—compared with the old; extracts from Paterson and the Buceaneers; Gisborne; Cullen, 177—state of knowledge of Darien; much remains unsurveyed, 178—compiled maps

FITZROY.

should always show their anthorities, 179 — historical retrospect; settlements at Atrato and Agla; transfer to Nombre de Dios and Panama; gold of Darien, 179, 180—journey of Milla de Santa Ella; withdrawal of Spain, 181—Paterson and the Scotch colony, 182—Elliot Warburton, 183—Dr. Cullen and Mr. Gisborne, 183, 184; doubts; impediments; natives, 184—and climate, 186—Seemann's account, 187—palliations of obstacles from climate, ib.—necessary dimensions of a canal, 188—mistake in Gisborne's estimates; advantages of Gulf of St. Miguel, 189—conclusion, 190.

FITZROY, Capt. R.N. See *Hints to Travellers*, xxiv. 328-334.

currents at the Galapagos, xxiii. 224.

Island, North-East Australia, xxviii. 6.

Range, North Australia,

FITZWILLIAM, Earl, Obit. Notice, xxviii. p. cxxxiii.

Fiumara, wanted as an English word, xxiv. 209.

FLAGSTAFF Hill, St. Helena, xxx. 265. FLATTENING heads, Custom of, in Vancouver Island, xxvii. 298.

FLINDERS cited on Australian currents, xxiii. 227.

——— Island, North Australia, xxxviii. 6.

River, North Australia, ib.

FLOATING houses in Borneo, xxiii. 82.

islands in Burma, xxvii. 96.

FLORA of the Aral, xxiii. 97.

——— of Chusan, xxiii. 251.

——— of Vancouver Island, xxvii. 289.

FLOOD-WAVES of the Murray River, xxv. 180.

Flying Cloud, Remarkable voyage of the clipper, xxiii. 241.

FLY-Pool, South Africa, xxiv. 289.

Fogs north of Japan, xxiii. 230. Folard cited, xxvii. 7.

FOOCHANG, Yangtsekiang, xxx. 98.

Food, Animals in Arctic regions available as (see *Petermann*), xxii. 118.

Fooshan, Yangtsekiang, xxx. 77. See Fushan.

FORAT. See Ferat, xxvii. 188.

FOSSILS.

Forbes, Commr. R.N., Obit. Notice, xxii. p. lxvii.

FORDE. See Gisborne, xxvii. 191 seqq. FORDWICH, New South Wales, xxii. 229.

Forest regions of Himalaya, xxi. 75, 76—diminution of, in New Zealand, owing to fires, xxviii. 305.

FORKED Creek, British North America, xxx. 271.

Forrest, Notes on Cambodia, from Papers of. See Campbell, xxx. 182.

FORSYTH, Capt. R.N., his Arctic voyage referred to, xxiii. 123.

their exploration of the Chuqunaque River, Darien, xxvii. 196.

Fort Assineboine, British North America, xxx. 282.

— Carolina, Caledonia Harbour, Darien, xxvii. 197.

— Colville, British North America, ib. 291.

Confidence, Hudson's Bay territory, xxii. 73, 82, 96.

— Du Bus, New Guinea, xxviii. 264.

Edmonton, British North America, xxx. 278-310 passim.

Ellice, British North America, xxx. 272.

Garry, British North America, ib. 267, 271.

— Langly, Frazer River, xxvii. 311.
— Liard, British North America, xxii. 186.

Pitt, British North America, xxx. 275, 278, 280.

—— Reliance, Great Slave Lake, xxvi. 19, 24.

Resolution, Arctic America, xxii.

— Rupert, Vancouver Island, xxvii. 273, 275.

— Servante, Samana, San Domingo, xxiii. 271.

—— Simpson, British North America, xxii. 96, 186.

— William, British North America, xxx. 269.

FORTESCUE Bay, Pacific coast of Patagonia, xxv. 195.

Fossil trees on Pampas of South Peru, xxi. 112.

Head, North Australia, xxviii.

Fossils of South Peru, ib. 124—shells on Sahra, xxii. 136.

——— on Milo, ib. 225—mammalia of Tibetan alluvium, xxiii, 19.

FOVEAUX.

FOVEAUX Strait, New Zealand, xxi. 25,

Fragrant Isles of Columbus, Bahamas, xxvi. 199.

France; great military map of, xxi. p. lxx.—great official map of, xxvi. p. cci. Geographical work and progress, xxi. p. lxx.; vol. xxii. p. ciii.; vol. xxv. p. civ.; vol. xxvii. p. exlii.; vol. xxviii. p. elxii. See Coast Sur-

Frances River, British North America, xxii. 187.

Franciscan Missions, Bolivia, xxiv. 263.

Francisco, João, Journey from Massomedes (Little Fish Bay) to CAEMDO, in 1841. By James Macqueen, xxx. 161.

Franco, Baron de, his researches on the elevation of surfaces on the globe, xxxviii. p. ccix.

Frankincense, xxix. 142.

Frankland Island, North-East Australia, xxviii. 6.

Franklin, Sir John, Obit. Notice, xxv. pp. lxxxvii., cxxii.

-, Search for, xxi. p. lxxvi.; vol. xxii. pp. lxxi., exxvi.—
(Rae), xxii. 73, 82; xxiii. 122; see
Petermann, ib. 129—Inglefield, ib.
136—McClure, xxiv. 240; xxv. p.
xciv.—Collinson, ib. 194; xxvi. pp.
ecvi.-ceix.—Anderson, ib. 18; xxvii.
321; vol. xxvii. p. exci. seqq.; vol.
xxviii p. clxxiv.; vol. xxiv. p. eciji. xxviii. p. clxxiv.; vol. xxix. p. cciii.; vol. xxx. p. cxlix.—see Kane's paper and others noted below.

—; ships on ice-floe supposed to be his, xxii. lxxvi.—see also Findlay, xxvi. 32—Petermanu's observations, xxii. 124—story of his being murdered at Omenak, xxiii. 137—relies of his party, xxvi. 21, 22, 23; xxvii. 321, 323, 327.

-; Report to Secretary of United States Navy, of the Expedition in 1853-5, in Search of, with chart of discoveries. By Elisha KENT KANE, M.D., U.S.N., XXVI. 1.

—, On the probable course pursued by. By A. G. Find-LAY, XXVI. 26.

-, the SEA of SPITZ-BERGEN, and whale-fisheries in the Arctic Regions. By Augustus Petermann, xxiii. 129.

-; his Missing Party, ARCTIC EXPLORATION and information regarding. By Dr. John Rae, xxv. 246.

FRIEND.

Franklin, Lady; her exertions in the search for her husband, see Kennedy, xxiii. 122—Inglefield, xxiii. 136; vol. xxii. p. lxxix.—award of Gold Medal to, xxx. pp. vii., xeiv., xevii. and letter from, ib. p. xcvii.—address to, from Legislative Council of Van Dicmen's Land, xxiii. p. lxxx.

Cape, Arctic Sea, xxii. 84.

- Point, of Sir James Ross, in

Victoria Strait, xxii. 91.

— Bay, Aretie America, xxiv. 243.

-- Island, North Greenland, xxvi. 9.

- Lake, Arctic America, xxvii.

Franzeskop, hill in Great Bushmanland, xxviii. 163.

Fraser, James Baillie, Obit. Notice, xxvi. p. clxxv.

Frazer River, British North America, xxii. 185, 190, 193; xxvii. 301, 311.

Frederic, Cæsar, his travels in Pegu, in sixteenth century, xxvii. 62.

Frederikshaab, Greenland, xxvi. 40. Free revolving stand of Prof. Piazzi Smyth, xxvii. p. cxli.

Freemen of Hudson's Bay Company, xxii. 181.

Freezing of rivers, lakes, &c., in Tibet, xxiii. 58-61.

- of part of the Caspian, xxi. 5 -of Aral Sea, xxiii. 98—of the Syr Darya, 100.

Fremont, Col., xxvi. p. ecxx. Fremantle, Western Australia, xxv.

French publications. See France.

--- marine surveys. See Coast Surveys.

—— in New Caledonia and Isle of Pines, xxvii. p. clxxix.

—, Old, outposts in North America, xxii. 177. Frere, B., Obit. Notice, xxii. p. lxv.

Fridoux, Rev. Mr., turned back by the

Boers, xxi. 21.

FRIEND, Licut. CHARLES, R.N., Notes of excursion from banks of RIVER ATRATO, to BAY OF CUPICA on Pacific, in 1827, communicated by Dr. W. Hamilton, R.N., xxiii. 191. Object commercial, not scientific; breakers on Atlantic coast, and mouths of Atrato; Punta Arenas anchorage; list of Atrato mouths, 192—the River Napipi; enter the Napipi, 193 rapids, 194; hot springs; note on the ship's boat brought from the

FRIENDLY.

Pacific to the Napipi in 1820; come in sight of the Pacific, 195; reach the Bay of Cupica; return by same route, 196.

FRIENDLY Islands. See Erskine, xxi.

227.

of. By O. W. Brierly, xxii. 97.

Frobisher remarks the excessive cold in Frobisher Straits as compared with higher latitudes in Europe, xxii. 124.

FROG Portage, British North America, xxii. 182.

Frozen ground, Depth of, at Fort Edmonton, British North America, xxx. 276.

Fruit-trees in Chusan, xxiii. 251.

Fruits, indigenous to Western Australia, xxviii. 146—of East African Coast, xxix. 34 seqq.—of Usagara, 103—of Ujiji, 219.

Fuca Straits, Vancouver Island, xxvii.

269, 315.

Fuego, volcano in Guatemala, xxviii.

Fuga, Usumbara, East Africa, xxviii. 204, 212, 214; xxix. 3, 13, 19. Fukra, Ruins of, near Dog River, Syria,

xxiv. 35.

Fulbé, Fula, or Fullan race, Negroland, xxx. 116-124.

Fullarton's 'Gazetteer of the World,' xxi. p. lxix.

Fumbino Mountains, Chadda River, xxv.

Funeral ceremonies, Dyaks', xxiii. 78. See Dead. disposal of.

Funduck, Palestine, xxiv. 10.

Fundy, Bay of. See Coast Surveys. Fur, Furawi, Dar Fur, xxx. 123.

FURANYS, Two expeditions by the, in Central Africa. Communicated by Dr. Barth, xxiii. 120.

Furious, H.M.S., strikes in the Yang-

tsekiang, xxx. 88, 98, 100.

Fury Beach, North Somerset, visited by Kennedy, xxiii. 125—câche left at, in 1825 and 1833 still found in 1852, xxvi. 31.

Fusail (Phasaelis), Palestine, xxiv. 18. Fushan, Yangtsekiang, xxx. 94. See Fooshan.

Fyler, G., communicates a paper by Oersted, on Nicaragua Canal survey,

FYTCHE, Capt. Albert, map of Sandoway Province, Aracan, xxvii. 61.

GALTON.

G.

Gabara of Josephus (Kubara), xxvi. 7, 8.

GABEZAVA, South Sudan, xxiv. 285.

GABRIEL, Edmund, his kindness Livingstone, at Loanda, xxv. 228—letters from, regarding Livingstone,

Gabutsilai, Manchuria, xxviii. 408. Gahab District, near Ispahan, xxv. 11.

Gaidjan, Amur, xxviii. 441.

GAIRDNER River, Western Australia, xxii. 46.

Gaiumkona River, Amur, xxviii. 428.

GAL Algawf. See Jal al Jauf.

Galapagos, Currents at, xxiii. 224.

GALATHERA Plains, New South Wales, xxii. 231.

GALATZ, XXX. 163, 167.

GALDIYA, Tibetan name of Garhwal, xxiii. 2.

GALILEE. See Robinson.

GALINIER and Ferret, work on Abyssinia, xxii. p. cxx.

GALITZIN, Prince Emanuel, Obit. Notice, xxiv. p. lxxxiii.

GALLADZET Hills, Pegu, the name pro-

bably a mistake, xxvii. 78.

Gallas, south of Zayla, xxv. 139 tribes of, round Harar, 145—in relation to Jimma country, 206, 207 vocabulary of, 214—tribes of, between Red Sea and Abyssinia, 217—their accounts of a great lake, xxvi. 117 alleged, near Lake Nyanza, xxix. 273, 297.

Gallo, José Miguel, his mining discoveries in Atacama, xxiii. 200.

Gal-Oya, Ceylon, xxvii. 342, 343.

GALTON, FRANCIS. Expedition into South-West Africa, xxii. 140. Menacing attitude of Boers; freights a vessel for Walfisch Bay; no correct information at Cape Town about Damaras; Walfisch Bay, 141 general course adopted, 142—difficulty about plurality of names places, 143 — name of Damara unknown to the tribe; general sketch of the physical geography of the Damara country, ib.—rain and rivers, 144—detail of route from Walfisch Bay; the Swakop River and its deep cutting, 145 the Hakis or Fish-hook Thorn jungle, 146 - singular and sudden origin of deep river-beds in open plains, 147—difficulties encountered,

GALTON.

ib.—little habitable country, almost no agriculture, and limited pasture. 148—African tribes always leave a broad border-land between them, which is occupied by Bushmen and outcasts, ib. — the reported Lake Omanbondé found dry, but with traces of hippopotamuses; its real nature, 149—palm-trees reached, then timber-clumps, and grassy savannahs, ib.—singular phenomenon of circular holes in all bare rocks, from one inch to several hundred feet in diameter, 150—salt-pan of Elosta, 151—flat, grassy, estuary-like plain of Otchihako, ib.—reach the rich corn-country of Ondonga (Ovampos), ib.—the werft of Nangoro the King, ib.—obstacles to further progress, ib.—which is forbidden by the King, 152—return to Barmen in Damara Land, ib.—start eastward towards Lake Ngami, ib. water and game abundant, ib.—Elephant Fountain, ib.—T'ounobis; the road thus far from Walfisch Bay open at any season, 153—marvellous quantity of game, ib.—information received as to Lake Ngami, and rivers connected with it, 154—as to large river 100 miles north of Nangoro's werft in Ovampo, 155—Ethnology of Ovampos, Damaras, Hottentots, Mationa Caffres, and Bushmen, 156—peculiar negro-tribes, called Ghou Damup, ib. — physique of the Damaras, and character, 159—superiority of the Ovampo, 160—Note on construction of map; tables of observations for latitude and longitude, 161-163.

GALTON, FRANCIS: his journey, xxi. p. lxxxvi.; medals awarded to, xxiii.

p. ix. lviii.; vol. xxv. p. xeviii.
On instruments for Travellers, xxiv. 345—on observations,

349; xxv. 80, 91, 101. Gambling among Vancouver Indians, xxvii. 299.

— banks in Mexico, xxx. 46.

Gamboge-trees, xxx. 181.

GAMIEP, Little Bushmanland, xxviii. 168.

Gamitto's explorations in Cazembe and other parts of Central Africa, xxvi. 110, 111, 119, 120, 127; xxix. 44, 255, 272; xxx. 143, 152-154, 157.

Gams, Little Bushmanland, xxviii. 169. GAN River, Manchuria, xxviii. 381, 385. GANDIKO, Chadda River, xxv. 115. Ganges, Sources of, xxi. 64; xxiii. 9. GANGOTRI Glacier, xxi. 64.

GASSIOTT.

Ganguellas, people in South Central

Africa, xxx. 138.

Ganking or Nganking, Yangtsekiang, xxx. 82, 84, 97.

GANNA Pan, Great Bushmanland, xxviii.

Gantalawa, and its tank, Ceylon, xxvii. 332, 334, 335, 344.

Gantheaume Bay, Western Australia, xxii. 72.

Gantsi Tribe, Amur, xxviii 398.

GAOGA of Leo Africanus, Central Africa, xxx. 121.

GAR, Garoo, Gartokh, Gardokh, &c., Tibet, xxiii. 6, 7, 11-13, 16, 24, 25, 27, 28, 31, 67—river of, 37, 38.

GAROOS, Garrows, Eastern Bengal, xxvii. 64.

Garachine, Darien, xxvi. 178.

Garbo Cataract on White Nile, xxx. 133.

GARGANTA (Caganda?), East Africa, xxiv. 266, 268.

GARHWAL and KUMAON HIMALYA, Physical Geography of. See Strachey, xxi. 57—ethnography, 80.

Gari-n-baberbere, South Sudan, xxiv. 286.

GARI-N-MAIYAKI, South Sudan, 287.

GARI-N-MUTUMDAEA, South Sudan, ib. 285.

GARMSAR, Ghermsir (Hot region), South Persia, xxvii. 154.

Gartok, Gartope, &c. See Gar.

Garry, Lake, Arctic America, xxvii. 327.

GASCOIGNE, River, Western Australia, xxii. 57, 59; xxvi. 235, 238, 246, 262, 264, 267, 269. Gası, Zanzibar Coast, xxviii. 196.

Gassiott, H. S. Notes from Journal of Hunting-tour in South Africa, xxii. 136—Intended route obstructed by Boers; go to Angra Pequena, 137-Bethany; travel back to the Cape; start for Natal; D'Urban, 138— Pieter Maritzburg; Drakenberg; the Vaal; Dutch camp; Eland River; poisonous herb; Kameelfort, so called from giraffes; the Bad or Warmbath; excellent place for sport, 139—Moose River; Melon River; stopped by the Leidenburg; Orig Stadt; magnetic ore; Steelport; Soquati's Kraal; Elephant River; the Limpopo; alligators; Tsetsé fly; endeavour to ascertain course of Limpopo; the Elephant River; difficulties of exploration in this part of

GATRONE.

Africa, and obstructions from the Boers.

GATRONE, Sahra, xxiv. 281.

Gatsche Rand (Cavern Range), Transvaal, xxx. 252.

Gauls under Brennus in Greece, xxvii.

GAV-KHANEH, marsh near Ispahan, xxv. 12.

GAWLER, Col., summary of Australian discovery, xxviii. p. excvii.

Gebel, Gibbel. See Jibal.

Geese, Abundance of, in Arctic America, xxii. 80—and in Siberia, 121.

GEHUCHTE, A. VAN DE, on LATITUDE and Longitude of principal places in Republic of Guatemala, xxviii. 359.

Geneva, Increase of population in, xxiv. 315.

GEOGRAPHICAL information, Hints on collecting, xxiv. 353.

- positions established by Collinson's expedition, xxv. 205—and see Tables.

- Society of Paris, xxii. p. ciii.; vol. xxvii. p. cxlii.; vol. xxix. p. clxix.

— of Vienna; established, xxvi. p. ccvii.; vol. xxvii. p.

cl.; vol. xxviii. p. clxv.
of Russia, xxi. p. lxxiv.; vol. xxii. p. xcii.; vol. xxiii. p. lxxxvi.; vol. xxv. p. cxiii.; vol. xxviii. p. clxi.; vol. xxix, p. clxvi.; vol. xxx. p. clxxxii.

publications. See Abstracts of Presidential Addresses; also

Atlases.

Geological Survey of Great Britain, xxi. p. lxvii.; vol. xxvii. p. exxix.; vol. xxix. p. cliii.—of West Indies, xxix. p. cliv. - of India, xxix. p. clv. of Canada, xxv. p. cxxv.; vol. xxviii. p. clxxvii.

—— map of Switzerland, xxv.

p. evii.

xxiii. p. cviii.

report of Palliser's expedition in British North America, xxx.

Geology of Caucasus, xxi. 1 seqq.—of Armenian Highlands, 3—of Louisiade Archipelago, 15 — of New Guinea, 17—of Kumaon and Garhwal Himalya, 65-69—of South Peru, 123—of country about Tripoli, 131—of Western Australia (Gregory), xxii. 1 seqq. passim—of Western Tibet, xxiii. 19

GHAZIA.

-of Borneo, 71-of Chusan, 246-of Samana, San Domingo, 275—of Red Sea shores, xxiv. 234 seqq.—of part of Crete, 238—between Medina and Mecca, xxv. 134 – as regards coal formation in Chilé, 172—of Western Australia, 176—of Palestine, especially about the Dead Sea, see Poole, xxvi. 55 seqq.—of Vancouver Island, xxvii. 270—as regards structure of south-eastern part of African continent, 357 seqq.—of North-Western Australia, xxviii. 138 seqq.—of coast of New Guinea, 267—of Pennsylvania,

by Rogers, noticed, xxix. p. ccvii. Geometrical projections of the Sphere,

New, xxvii. p. cxli.; vol. xxix. p. clxi.; and see *Herschel* and *James*.

George Tobou, King of Friendly Islands, xxi. 227, 228; xxii. 98, 103, 105, 110—his flag, ib. 116.

Georgia (Caucasian), xxi. 2—climate

of, 5-8.

xxvi. 246, 264, 266.

GERMAN maps and geographical works, xxi. p. lxxii.; vol. xxii. p. xcviii.; vol. xxiii. p. xcvii.; vol. xxiv. p. xciii.; vol. xxv. p. cx.; vol. xxvii. p. cxlix.; vol. xxviii. pp. clxv.-vi.; vol. xxix.

GERMANY, Navigable rivers of, xxv. p.

Getæ, defeated by Alexander, xxiv.

Geysers, in the Andes, xxi. 120. Geyser-like jet in Mexico, xxx. 57.

GHADAMIS, extract of Report of Journey from Tripoli to, by Vice-Consul C. H. Dickson, xxii. 131.

-, Snow in, xxi. 132; xxii. 136; xxx. 113, 125.

-, Account of, by Consul Dickson, xxx. 255.

GHADIR, "Basin or Pool," name of two stations between Medina and Mecca, xxv. 122, 129.

GHANZE, Lake Ngami, xxv. 82.

GHARIAN, Ghariyan, range south of Tripoli, xxi. 131; xxii. 133.

GHAT, Sahra, xxi. 133; xxx. 113, 114, 125, 259.

GHAZALE Valley, Akaba, Arabia, xxv. 277.

GHAZIA, clan of Tay Arabs, xxiv. 192.

GHENITCHI.

GHENITCHI, Crimea, xxvii. 134-136, 142, 148.

GHERGAOUN, Fars, xxvii. 167.

GHERMSIR. Sec Garmsar.

Gнеz, tree yielding manna in Kerman, xxv. 65.

Ghias tribe of Arabs, xxviii. 234.

GHIZZIAS, outcast robber Arabs, xxx. 204.

Gномкан, ruins on Dead Sea, xxvi. 68, 69.

Gнов, Wadi El (Jordan Valley), xxxiii. 165, 167; xxiv. 18, 19, 22; xxvi. 62, 63.

Ghou Damup, or Hill Damaras, a peculiar negro race in Damara Land, xxii. 156—their probable history, 158; xxvi. 91, 96.

Ghurab, Hijaz, xxv. 124.

GIANT tribe in Arabia, traditions of. xxiv. 190. See Gigantic.

GIANT'S Tank, Ceylon, xxvii. 329, 332.

Gibeah of Saul, xxiv. 17.

Giboa River, San Salvador, xxviii. 351, 357, 358.

Gibbon, Lieut. u.s.n., exploration towards the Upper Amazons, xxv. 156; ib. p. exxix.

GIBBS, Arthur, on Landfall of Columbus,

xxvi. 190.

GIBBUT, Wadi, on Euphrates, xxx. 206. GIBRALTAR Straits and Morocco, Surveys of, by French. See Coast Surveys.

Gidi or Igidi, west of Sahra, xxx. 114. Giffre River, tributary of Arve, xxvii. 225, 230.

Gigantic skeletons of ancient Indians, alleged, in Mexico. xxx. 38.

GILBERT River, North Australia, xxviii. 107.

Gilgal (Jiljulieh), xxiv. 10.

GILGIL River, Central Australia, xxii. 232.

GILGIT, north-west of Tibet, xxiii. 5, 10, 54—river of, 43.

Gilliss, Lieut. U.S.N., Observations of, in Chilé, xxvi. p. cexxiii.

Gilui River, Journey to the source of, and to the Zeya (in Amur Land). By Ensign Usoltzoff, xxviii. 425.

GILYAK tribe of the Amur, xxviii. 389—notices of, 395, 396—their dogs, 398, 410, 434-438.

GIMPI, Amur, xxviii. 441.

GINYINDO, Lake Route, East Africa, xxix. 128.

GIRAMO Lands or Zeramu (*Uzaramo* of Burton), East Africa, xxiv. 266, 268.

GIREN River, Manchuria, xxviii. 381, 385, 410.

GOAJOYO.

GIRHI, tribe of Somal, xxv. 141, 142. GIRITELLA Tank, Ceylon, xxvii. 331, 335, 341, 344.

Gisborne, Lionel, c.e., his Report on Darien referred to, xxiii. 177, 183, 184—error of, 184.

-, Summary of Rcport on Survey of Isthmus of Darien, xxvii. 191—Opposition expected from Indians; party landed, 192—fail to find a break in Cordillera; and return, 193—Lieut. Strain, u.s.n., and party missing; Gisborne and St. John start again, 194—cross the Cordillera, at 930 ft. elevation; reach the Savana; surveys on that side not commenced; Gisborne attempts to recross to the Atlantic, on Prevost's track, and fails, 195—starting for Panama, meets H.M.S. Virago, which sends party to seek Strain, 196—discover the party in great suffering, 197—old crossings of the isthmus; Pacific anchorages; mean level of the two oceans, 198—the Chuqunaque; Gisborne's return to Caledonia harbour; further examination of the Cordillera, 199—the isthmus healthy, 200—incorrectness of all the maps, 201-Caledonia and Darien harbours, 202 —extreme difficulty of the country, 203 — mistakes in first expedition, 204—conclusion against a ship canal at the isthmus, 205—importance of prosecuting the inquiry from the Atrato to Campeachy.

Gish-Kuh, Kerman, Persia, xxv. 61.

GLACIER, very great, in north latitude 79° 12′, seen by Kane (called in map "Humboldt Glacier") xxvi 8

"Humboldt Glacier"), xxvi. 8.

Strait, Baffin's Bay, xxiii. 142.

Lake, Rocky Mountains, xxx.

301.

GLACIERS of Himalya, xxi. 71, 72—on Turkish watershed of Tibet, xxiii. 9—of Kumdan, Tibet, ib. 38, 42, 53, 55—of Western Tibet, 52-54—movement of, xxi. 71; xxiii. 145.

GLASCOTT, Lieut. R.N., surveys of Turco-Persian frontier, xxvi. p. ccxviii.

GLENELG River, North-Western Australia, xxviii. 142.

GLIDSHA Hot Springs, Rumelia, xxiv. 49.

GLOSSARY of Aracan terms used in Tickell's Journal and Map, xxiv. 114.

GNYNGARNING, West Australia, xxvi. 236.

Goajovo River, San Salvador, xxviii. 353.

GOASCORAN.

Goascoran River, San Salvador, ib.

Goats in East Africa, xxix. 392.

Gober, Central Africa; its towns, &c., xxi. 157; xxx. 120. Gobugar, Manchuria, xxviii. 409.

Godfu, Fezzan, xxiv. 278.

Godo, Manchuria, xxviii. 407.

Gogo (the *Ugogo* of Burton, q. v.) Eastern Africa, xxiv. 266, 268.

- or Gagho, in the Niger country, formerly very flourishing, xxx. 125,

—, Yoruba, xxx. 223.

Gogra River, Northern India, Sources

of, xxiii. 9, 35.

Gold; produce of Australia, and anticipations of its discovery, xxii. p. lxxxii. seqq.—and silver, effect of gold discoveries on relative values of, ib. lxxxvi.; vol. xxvii. p. clxxiii.—washings in Borneo, xxiii. 74—mines in Atacama, xxiii. 202; xxv. 161—near Muwailah, Red Sea, xxiv. 213—diggings, Queen Charlotte Islands, xxiv. 248—regions of Panama, 257—south of Zambesi, xxvii. 379; xxx. 155 produce of Victoria, xxviii. p. excviii. mines and washings in Northern Mexico, xxx. 19, 26, 37, 41, 44 – on slopes of Eastern Andes, xxx. 72, 73 —seeking in Cambodia, xxx. 178.

Golden Island, Yangtsekiang, xxviii.

296; xxx. 78.

Golds, a Tungus people of the Amur, called by the Chinese "Fish-skinned," xxviii. 386, 387, 395, 397, 438-

Golni, Amur, xxviii. 437.

Golubef's travels and surveys in vicinity of the Thian Shan, xxx. p. clxxx. Goma Pass, Lake Route, East Africa,

xxviii. 221; xxix. 108. Gombe River, Unyamwezi, xxix. 30, 171, 187, 264.

Gonye Cataracts on Upper Zambesi, xxiv. 295, 305.

Goodsir, Mr., finds possible traces of Franklin, xxvi. 27.

Goodwin Sands, Bellson, xxvii. p. cxlii. Gorassett, South Africa, xxviii. 167.

Gorbiza, or Kerbeche, place and river, Amur Land, xxviii. 376, 377, 426. Gordon, Hon. Lieut.-Col. A., journey

between Kustenje and Danube. See Spratt, xxvi. 203.

- Head, Vancouver Island, xxvii. 280.

- Inlet, Western Australia, xxii. 46.

GRAHAM.

GORDON River, Western Australia, ib.

- Mountain, Western Australia, ib. 9.

Gore River, Western Australia, xxii.

Gorges of river-exit from Tibet, xxiii.

Gorgilos Stream, Laconia, xxvii. 35, 50. Gorgon, H.M.S.S., accompanying Enterprise and Investigator, xxv. 195.

GORJI, South Sudan, xxiv. 286, 287.

Gorodech, Balkan, xxiv. 60.

Gorongozo Hill, Zambezi, xxvii. 385,

Gotera District, San Salvador, xxviii.

Gourlay Shoals, North-Western Australia, xxviii. 142.

GOVERNMENT of Peru, xxvi. 220.

- of East African tribes, xxix. 358.

Gowdin, Kerman, Persia, xxv. 36.

Gowk, Kerman, Persia, ib. 38.

Graah, Capt., his expedition to Eastern Coast of Greenland referred to, xxvi.

Graça's explorations in Africa. Macqueen, xxvi. 109, 123, 124, 127; xxvii. 373; xxix. 25; xxx. 150.

Grace, Vice-Admiral Perry, Obit. No-

tice, xxix. p. cxxxii.

Graham, Cyril C., Explorations in the Desert east of the Hauran, and in the ancient land of Bashan, xxviii. 226—Objects of tour; rarity of important advances in knowledge of Holy Land, 227—the Hauran; its previous visitors, 228 — Seetzen, Burckhardt, Buckingham, Porter; Damascus, 230—its rivers and lakes; ruins called Diúra; the Safáh and the Hárrah, 231—the Anazeh Arabs and their divisions, 232—return to Damascus; set out for the Hauran, 232—Musmeih, 233—skirt the Léjah; its towns; the Druzes; set out for the Safáh, 235-ancient towns; the singular tract called the Harrah; the Safáh, a volcanic district of remarkable aspect, 236 — curious inscribed stones; town and singular building of white stone; visit hills on the desert east of the Safáh and turn back, 238—more inscribed stones, and ruins; ancient road, probably from Bozrah to Palmyra, 239—the Hill Nemarch; return to Shuhba, 240—results of this journey; remarks on the country visited, 241 — the

GRAHAM.

Druzes of Hanran; old towns visited, 242—start from Shuhba, 243—Nimreh; Bshennef, 244—Busán; Sáli; beautiful scenery and Oaks of Bashan, 245—Hebrán; Peak el Kuleib; Kufr, 246—difficulties; visit Bozrah and have trouble with the Arabs, 247 comment on the story of Abraham and Ephron the Hittite, 248—a bargain, 249—Bozralı; great eity of Um el Jemal (Beth Gamul?), 250—reflexions, 251—the houses and stonedoors; other eities, 252—the Arabs break faith, but the traveller is reseued; Kureiyeh (Kerioth), 253—Um er-Ruman and other cities, 254—threatened attack; old road from Saleah to Basrah (on Tigris), 255— Deir-en-Nasrani; Orman; Malah; return to Salkhad (Salcah), 256—the Rephaim; and remarks on the stone cities, 257—probable desiceation of climate; Suweideh; Kunawát (Kenath, 258—the Imam of the Druzes; enter the Lejah and pass through a part of it, 259—Edhra (*Edrei*), 260— journey across Jaulán (*Gaulonitis*) to the Sea of Tiberias; conclusion, 261 -Note on the Druzes, 262.

Graham, Cyril C., his explorations in Bashan, xxviii. p. elxxxi.—his journeys in Egypt, xxx. p. elxiii.

Gran Estero, Samana, San Domingo, xxiii. 275.

Grand Turk, Bahamas, supposed by some the San Salvador of Columbus, xxvi. 189, 192.

Cormet Pass, Upper Savoy, xxv.

187, 189.

Grande River, San Salvador, xxviii. 352.

Silver Mine, Tarapaca, xxvi.

———— Prairie, British North America, xxx. 275.

Grant, Lieut.-Col. Colquhoun, Description of Vancouver Island, xxvii. 268
—Advantages; position and size, 269
—general aspect repelling; little open land; geology, 270—history of settlement, 272—population in 1852, 273—distribution of land; quantity in cultivation, 274—crops; climate and seasons, 275—trip round the island; Fort Rupert, the most northerly station; coal-mines, their failure, 276—Johnson Strait; Cape Mudge; Point Holmes; Nanaimo, Hudson's

GREAT.

Bay Company settlement, 277—coal mines; archipelago and channels, with fieree tide, 279—Saneteh, 280—Cowitehin River; Gordon Head; Vietoria; Harbour of Esquimalt, 281 Matehousin, 281—ancient camp, probably Spanish; Becher Bay, 282—salmon fishery; Soke Harbour, Col. Grant's original settlement; Port St. Juan, 284—eoal; Bonilla Point, 285—Barclay Sound; worthlessness of Indian reports, 286—Alberni Canal of the maps doubtful; Clayoquot Harbour, 288—Nootka Sound; Koskeemo; eoal; Indian population, 289.

Vegetable productions and Natural History.—Beasts, 290—birds, 291 fir-trees, 292—timber large but

poor; native hemp, 293.

Ethnology.—Tribes, 293—purehase of lands, 294—languages, 295—specimens of numerals; slavery, 296 superstitions; height and complexion, 297—dress; women; colour, 298 head flattening; babies; marriage; gambling, 299—common habitations; bow and arrows; salmon fishing; herring fishing, 300—whales eaught; general filthiness; burying-grounds, 301—reception of a young warrior, 302—disappearance of the red man before the white, 303—duration of life, 304—murder of the aged; childmurder; mixed breeds; poisons; trueulent nature, 305 — national dances; former shell currency, 307 belts of these like the wampum-belts; tattooing among the women; failure of all attempts to impart Christianity; fables of the people.

Trade, 310—fisheries, eoal, and timber. List of imports and exports

in 1853, 312.

Opposite coast of America, 311—coal, 314—Puget Sound, 315—Admiralty Inlet, 316—Steilaeoom; Port Townsend, 317—Port Discovery, 318—Dungeness; inhospitable character of the northern coast of Oregon, 319 the savages; concluding remarks as to Vancouver Island, 320.

GRANT to the Society from Govern-

ment, xxiv. p. vi.

GRAVES, Capt. T., R.N.; Obit. Notice,

xxvii. p. eviii.

GREAT BEAR LAKE, Journey from, to

GREAT.

Wollaston Land. By Dr. John Rae, xxii. 73; 189.

Great Bear Lake River, ib., 186.

- Belly River, British North America, xxx. 289.

- Fish River, South Africa, xxvi. 163.

__, Back's, Arctic America, xxvi. 18-25.

— Island, North-East Australia, xxviii. 5.

- Slave Lake, xxii. 184; xxvi. 19. - or Elder Tai (of Laos), xxvi. 73; xxvii. 88.

- Globe (Wyld's), xxi. p. lxix. - Circle sailing, xxiii. 239; xxx. clxxxix.

- indicator, xxiii. p. cxxx. Greece, Map of, by French Depôt de la Guerre, xxi. p. lxx.

Greek inscription in Hauran, xxvi. 50. - empire, Restoration of, chimerical, xxiv. 65. —— clergy in Bulgaria, xxiv. 68.

Greeks of Rumilia, their characteristics, xxiv. 38, 40, 43, 54, 62, 64, 76. Green's 'Sketches of War in Greece,'

xxvii. 26.

GREENLAND, On the large Continental Ice of, and the origin of Icebergs. By Dr. H. Rink of Copenhagen, xxiii.

--, On the supposed discovery by Dr. Kane of the north coast of, and of an Open Polar Sea. By Dr. H. Rink, xxviii. 272.

xxiii. pp. lxxxii.-lxxxiii.

ger, xxvi. 36.

Gregory, Augustus C., Journal of the NORTH AUSTRALIAN Exploring Expedition under the command of, xxviii. 1.

Shipment from Sydney, 1—at Brisbane embarking horses and sheep, &c., 2, 3—arrive near entrance of Victoria River, and land horses, &c., 11, 12.—send party in schooner to ascend the river, Mr. Gregory and another party proceed by land, 13—white cockatoos; start, 14—Macadam Range, 15, 16—Fitzmaurice River, 18—horses attacked by alligators. tors; Adansonia trees, 20—extensive fire; reach Victoria River, 21—find the schooner has grounded and been damaged, 22—erecting store-shed, 24 - repairing schooner; visited by blacks, 28—preliminary exploration; Fitzroy Range, 29—Jasper Range, 31

GREGORY.

-Mount Sandeman; turn after eleven days' journey up river, 33 — reach principal camp, 34—division of party for exploration, and remaining at camp, 35—journey commenced, 37— Stokes Range, 38—Jasper Range, 39 —a light party with Mr. Gregory pushes on up the Victoria, 47—reach desert of sand, 49—strike west and then south-west; Sturt's Creek is struck and followed, 53 — Mount Mueller, 57—inhospitable desert, 58 — Mount Wilson, 59—retrace route northward, 61—leave Sturt Creek, 65 —reach depôt camp again; reduction of weight in pork by the heat, 66 light party proceeds to the eastward, 67—reach a large creek and follow down to Victoria River, 69—native paintings on rocks, 70—Mount Sanford, 71—rejoin depôt; proceed north again; Wickham River, 72-Mount Sandeman, 73—rejoin principal camp, 75—much illness and causes; prepare for exploration towards Gulf of Carpentaria.

Send schooner round to Albert River in Carpentaria, 9—and land party sets out, 79—Elsey Creek, 85—the fan-palm; Roper River; reach the Albert River, 100—schooner not arrived; proceed towards Moreton Bay; Leichhardt River, 102—hostile natives; Burdekin River, 114—traces of Leichhardt's march, 115—Suttor River, 121—Mackenzie River, 127— Comet River, 128 — Dawson River, 129; reach Conner and Fitz's Station; reach Brisbane, 134 — and

Sydney, 135.

Report on health of the expedition by J. R. Elsey, 135.

Gregory, Augustus C., Expedition to the Northward of Perth, Western Australia, xxii. 57.

Instructions from the Colonial Government, 57—letter with summary of results from Mr. Gregory, 59. Journal-Irwin Plains; good agricultural soil; reach Murchison River, 61 —compelled by absence of water to return without reaching Gascoigne River, 63—mouth of the Murchison, 64—meet with natives, 65, 66—Bowes River, 66—good sheep-pasture; signs of mineral wealth; Butler (Chapman) River; natives, 67—Greenough River; explore its course, 68; Wizard Peak; Irwin River, 69—large party of natives; Mounts Peron and Lesueur, 70

GREGORY.

—Hill River; Moore River; reach Perth, 71—time and total distance travelled.

Gregory, Augustus C., project of his expedition, xxv. p. xcvi.—his explorations in North Australia, xxvi. p. ccxxvi.—in West Australia, xxvi. 238—journey after traces of Leichhardt, xxix. p. 211—Founder's Medal assigned to, xxvii. pp. viii., lxxxv.——, H., on Roe's expedition in

Western Australia, xxii. 3, 7, 13

seqq.

Greenough, G. B., his Geological Map of India, xxiii. p. cviii.—Obit. Notice, xxv. p. lxxxviii.—his bequest of books and maps, &c., to the Society, ib. and xxvi. pp. vii., clxxii.—catalogue of its contents, xxvi. p. lxvii.

————, R., Western Australia, xxii.

67, 68.

GRIFFITH, Dr., his journey from Assam

to Ava, xxvii. 56, 68.

Grinnell, Mr., his efforts in promoting search for Franklin, xxiv. p. lxxx.; xxvi. pp. 30, 33.

Grinnell's Land, Arctic Sea, xxvi. 9. Griquas captive in Matebele country,

xxvi. 94.

Groper Fish, Western Australia, xxii. 51.

Grotto Peak, Rocky Mountains, xxx. 297.

Guadalajara, Mexico, xxx. 46.

Guadalupe, North-Western Mexico, ib. 23, 24.

Plains, San Salvador, xxviii. 358.

Western Mexico, xxx. 31.

Guaimoco, San Salvador, xxviii. 351.

Gualala, Honduras, xxx. 62.

Guallaga, tributary of Amazons, xxvi. 215.

GUAMANCHE, North-Western Mexico, xxx. 8.

Guanini Ridge, Ecuador, xxviii. 337. Guanabo River, San Domingo, xxiii. 274.

Guanaco, The, xxi. 118, 121.

Guanahani. See San Salvador (Bahamas).

GUANAJUATO, Mexico, xxx. 45, 47, 50.

Guanavano, Burica, Isthmus of Panama, xxiv. 256.

Guancavelica, department of Peru, xxvi. 224, 226.

Guania River, Upper Rio Negro, xxiii. 213, 215.

Guano, xxi. 106, 116, 127; xxii. p. xci.

GUMBED.

—in Tarapaca, xxvi. 231; xxix. p. ccx.

Guano islands and ports of Peru, xxvi. 216.

Guantajaya silver-mines, South Peru, xxi. 107.

Guantitlan, Mexico, xxx. 48.

GUAPAY River, Bolivia, xxiv. 261.

Guarajambala River, Honduras, xxviii. 352.

Guasimur, Atacama, vast number of seals at, xxi. 126.

Guasquina, Sibaya, South Peru, xxi. 116.

Guatacondo, Pica, South Peru, xxi. 115.

GUATEMALA, On the LATITUDE and LON-GITUDE of some of the principal places in the Republic of. By A. VAN DE GEHUCHTE, XXVIII. 359.

Guava fruit, though exotic, now grows

wild in Zanzibar, xxix. 36.

Guaviare River, tributary of Orinoco, xxiii. 213.

GUAXE, South Central Africa, xxx. 144. GUAYAS River, Guayaquil, xxx. 65.

GUAYAQUIL, XXX. 65, 71.

Guaymas, Port of Sonora, xxx. 44.

GUBAN, old mouth of Karun River, xxvii. 190.

Gubbe (Jubbe?) North Central Arabia, xxiv. 142, 159-161, 163-166, 168, 186, 190, 197, 206.

Guchen, Manchuria, xxxviii. 407.

Gudabursi, tribe of Somal, xxv. 139, 141, 142.

Gudar Na'al Shikan ("Horse-shoe Breaker"), Pass in South Persia, xxxii. 165.

Gudran, Yezd, Persia, xxv. 25. Gudus Canal, Babylonia, xxvi. 134.

Guebers, Language of the, xxv. 15—villages occupied by, ib. 21, 22.

Guerma Canal, Babylonia, xxvi. 144.

Guerretaro, Mexico, xxx. 48.

Guge, a subdivision of Nari in West Tibet, xxiii. 12, 13, 16, 18, 19, 21, 24, 25, 27, 28, 30, 31-40, 43, 44, 48, 49, 60, 62, 65, 67.

Guija Lake, San Salvador, xxviii. 350.

Guila, Ecuador, xxviii. 338.

Guinea current, xxiii. 219, 222. Gulansigung Mountains, North Burma,

xxvii. 65.
Gulf of Carpentaria, remarks on future

settlement of, xxvi. 185.
Gulf-stream, xxvi. p. eexxxii. 26—not the cause of mild winter-climate of

Britain, xxvii. 206 seqq. Gumbed, Ferashbund, Fars, xxvii. 181.

GUMODI.

Gumodi, Yoruba, xxx. 216.

Gunda, in Monomoiesi (Uganda of Burton in *Unyamwezi*), xxvi. 118.

Gungo, Gugu, or Gogo, East Africa, xxiv. 266, 268. See *Ugogo*.

Gungu, Lake Tanganyika, xxix. 216.

Gunnison, Capt. J. W., u.s.a., exploration of communication with the Pacific, and murder by Indians, xxiv. p. cli.

Gunt (a Tibetan pony), xxi. 80.

GURAGUE in Abyssinia, and Karagwa by Lake Nyanza, confounded, xxix. 279.

Guray Bunder, Somal coast, Lieutenant Speke deputed to, xxv. 137.

Gurla Mandhala, peak in Tibet, xxiii. 25, 48.

Gurma tribe, Negroland, xxx. 122.

Gurowa, Chadda River, xxv. 116, 120.

Gutta Percha (Quasi) of Isthmus of Panama, xxiii. 173; xxiv. 257.

Gutterriz, Dr. F., xxi. 96.

GUTZLAFF, Dr., Details on Chusan collected by, xxiii. 242, 257.

-- Island, China, xxviii. 293.

Guyon, General (Kurshid Pasha), xxvi.

GWYDIR, River, Central Australia, xxii. 232.

Gya-filing (Great Frank-land), Tibetan name of British India, xxiii. 2.

Gyagar (Great White), Tibetan name of India, xxiii. 1.

Gyal (Bos Gaurus), Aracan, xxiv. 110, 112.

Gyami (Great Man), Tibetan name for Chinese, xxiii. 1.

Gyamtso (Great Lake), applied to large rivers in Tibet, xxiii. 34.

Gyanak (Great Black), Tibetan name of China, xxiii. 1.

Gyaser (Great Yellow), Tibetan name of Russia, xxiii. 1.

Gypsies in Turkey, xxiv. 52, 57, 71, 72. Gypsum of Milo, xxii. 209, 220.

GYTCHAFA, old name of Koladyn River, in Aracan, xxiv. 114.

H.

HAABAI Group of Friendly Islands, xxii. 97.

HAAS Fontein, Great Bushmanland, xxviii. 164.

Habitations of races as a study, xxix. 133.

Hableh, Palestine, xxiv 10.

HABR Awul Horsemen, Somal country, xxv. 140.

HALLAM.

Haddington, Earl of, Obit. Notice,

xxix. p. cxxix.

Hadeek and Sadeek, Amur, xxviii. 438. Hadley's Theory of Winds opposed. See Hopkins, xxvi. 158; xxviii. 364 et passim.

Haemus. See Balkan, xxiv. 36 seqq. HAENKE on the Sources of the Purus

River, xxv. 158.

HAFFAR Island (or Abadan, q. v.), Euphrates Delta, xxx. 199. Hagara (Hajara?), tract of Arabia Proper adjoining Irak, xxiv. 171.

- and Hagar, tribe of the Sahra,

xxi. 134, 135, 168.

Hagla, near Aleppo, xxx. 210.

Hagsheen, well on road to Ghadamis, xxii. 135, 136.

HAHIR, Kahir. See Air. HAHN, Missionary, at Walfisch Bay, xxii. 144—proposed journey by, xxvi. p. ccxv.

Haibakan River, Amur, xxviii. 432.

Hall, town of the Shammar, in Central Arabia, xxiv. 147, 163, 170, 174, 175, 180-184, 198—described, 200-206.

Haines, Capt. S. B., I.N., On the Varia-TION of the Magnetic Needle at Aden, xxiv. 225.

-, On Currents in the Gulf of Aden, xxiv. 233-Notes on Red Sea, 238.

'Haip, Little Bushmanland, xxviii. 168. Hair of East African races, xxix. 317.

dressing of various tribes in East Africa, ib. 84, 130, 196, 222, 318.

Haiti, Columbus at, xxvi. 198.

Hajara. See Hagara.

Hajar-en-Nasrany, Galilee, xxiv. 22.

Hajji Salli Pass, Fars, xxvii. 119. HAKAN River, East Siberia, xxviii. 380. Hakis, or Fish-hook Thorn of South

Africa, described, xxii. 146. HAKLUYT Island, North Greenland, xxvi. 11, 15.

Halbu, Amur, xxviii. 438.

HALENGA River, South Central Africa, xxx. 139.

Half-breeds, Vancouver Island, xxvii. 304.

Half-moon Lake, British North America, xxii. 182.

Halford, Rev. T., Obit. Notice, xxvii. p. cxi.

Halhul, Judea, xxiv. 17.

Halkett Island, Arctic Sea, xxii. 90.

Hall, Dr. George, Obit. Notice, xxvi. p. clxxvi.

Hallam, Henry, Obit. Notice, xxix. p. cxix

HALLEY.

Halley at St. Helena, to observe transit of Venus, xxx. 263.

Hamad, Arabia, application of the name, xxiv. 137; and see next.

Hamada (table-land), or stony plateau of the Sahra, xxii. 135.

Hamadan, Persia, xxv. 3.

Hamaruwa, Chadda River, xxv. 109, 119—sultan of, 116, 117.

Hamataculla, South-Eastern Africa, xxx. 145.

Hamatan, Central Arabia, xxiv. 170, 171.

Hamatapa, South-Eastern Africa, xxx. 145, 146.

Hambo or Huambo, Kingdom of, Central Africa, xxiv. 271-273, 275.

Ham'dah, Bedawins, Hijaz, xxiv. 219.

Hamdillahi, Central Africa. See Routes.

Hamengoena River, South Central Africa, xxx. 140.

Hamerton, Colonel, consul at Zanzibar, his reports on the Imam's dominions, xxiii. 104, 105; xxix. 4, 5, 12-14—his death, 15, 17, 42—cautions to M. Maizan, 94, 357—his estimates of copal export, 438—of ivory, 444, 448.

Hamilton, William Richard, Obit.

Notice, xxx. p. cix.

tenant Friend's Journal, xxiii. 191.

————, Mount, Otago, xxviii. 322. Hammam, ruins in Babylonia, xxvi. 144. Hammer Purgstall, Baron von, Obit.

Notice, xxvii. p. cxv. Han River, tributary of the Yangtsekiang, xxviii. 289, 290; xxx. 90.

Hancock, commander of the Espiègle, xxvii. 191.

Hanga, Unyamwezi, xxix. 179.

Hangrang River and Valley, Tibet, xxiii. 30, 31, 36, 37, 38, 39, 43, 44, 50.

Hanjiger Island, Amur coast, xxviii. 390.

Hankow, China, xxviii. 290; xxx. 90; described, 91, 98.

Hanlé, Ladak, xxiii. 13, 16, 22, 24, 27, 28, 31, 37, 40, 60, 62, 64.

Hannay, Capt. S., his journeys in Upper Burma, xxvii. 56, 68.

HANNIBAL, Notes on the Passage of, across the Alps, and on the Valley of Beaufort in Upper Savoy. By

Trofessor Paul Chaix, xxv. 182. Hantam Bergen, Great Bushmanland, xxviii. 165.

HASBEIYAH.

Hantshi country, Chadda River, xxv. 116.

Hanyang City, Hankow, China, xxviii. 290; xxx. 90, 91.

Happy Valley, Central Australia, xxii. 240, 242, 257.

Hara Nur (Kara Nur?), Russo-Mongol frontier, xxviii. 414.

Haram of Jerusalem, Error in plan of, xxiv. 13.

Haramdéré, "Robbers' Valley," Balkan, xxiv. 54.

Haramosh Valley, north-west of Balti. Tibet, xxiii. 10.

HARAR, Narrative of a TRIP to. By Lieutenant RICHARD F. BURTON, XXV. 136.

———, or freemen, a class at Ghadamis, xxx. 257.

Harawwah Valley, Somal country, xxv. 141.

Harb tribe of Bedawin, xxiv. 219, 222, 224.

Harbour of Aradus (Ruad), xxiii. 154.

of Chusan, xxiii. 255.

Harbours in Borneo scarcely exist, xxiii. 71.

Hardy, Lieutenant, I.N., his observations on East African Coast, xxix. 2, 128—on River Rufiji, 306.

HARE Indians, xxii. 189.

Hares abundant in Arctic America, xxii. 75—and on Mackenzie River particularly, 189.

Haris, Syria, xxiv. 5.

Harisi chiefs, Zanzibar, xxix. 18.

HARMATAN wind, xxviii. 368.

Harrah, a singular stony and volcanie tract in desert east of Bashan, xxviii. 231, 235.

HARRAN, old city of the Lejah, Bashan, ib. 260.

Harris, Capt. Fortescue, Obit. Notice, xxvi. p. clxxvii.

Harrismith, borders of Orange River State, xxx. 235, 238, 255.

Harrison Bay, Arctic America, xxiv. 242.

HARRY, a white man, long in Fiji, xxvii. 252.

Hartebeest River, tributary of Orange River, xxviii. 177.

HARTLEPOOL Bay, Survey of, xxix. p. cxxxix.

HARTLEY, Mr., Consulting Engineer to Danube Commission, xxx. 168.

Harvey Point, Yangtsekiang, xxx. 77, 94.

Hasbany River, Syria, xxiv. 24, 25, 27. Hasbeiyah, Syria, xxiv. 24, 26, 27.

HASORA.

HASORA, western extremity of Tibet, xxiii. 11, 14, 16, 27, 30, 35.

Hassun, Lebanon, xxiv. 34. Hassan Faki, Balkan, xxiv. 72.

HATIEN or Kangkau River, Cambodia, xxx. 183.

HATT-SHERIF (Khatt Sharif), of Gulhane (Gulkhanah), xxiv. 65. Haug's project of Australian explora-

tion, xxiii. p. cxxix.

Hauran, Explorations in Desert East of, and in the Ancient Land of Ba-SHAN. By CYRIL C. GRAHAM, XXVIII.

--, the winter haunt of Enezeh Bedawin, xxiv. 149. See also Porter,

phrates, xxx. 206.

HAUSSA, nation and country, Negroland, xxiii. 120; xxx. 120, 122, 124, 125.
HAUTELUCE, Upper Savoy, valley of, xxv. 186, 189.

HAVILAH of Genesis, confounded with Obillah, on Lower Euphrates, xxvii.

HAWAII, Sandwich Islands, On the Volcanic Mountains of. By J. G. SAWKINS, XXV. 191.

HAWAZIM tribe, once powerful in North Central Arabia, xxiv. 158.

Hawes, Mount, West Australia, xxii. 23. Hawiza, Arab town in Khuzistan, xxvii.

Hawk Rapids, Arctic America, xxvii.

HAY River, British North America, xxii.

HAYA, a family of the Tay Arabs, xxiv.

HAYES River, British North America, xxii. 188.

Hayti, Proclamation of Spanish, xxiii.

Hazor of Scripture, xxiv. 5, 7-suggested identification, 23, 26.

HAZUR above Tyre, not Hazor, ib. 5. -, Tel, near Rameh, not Hazor,

ib. 7.

Hazury, tomb of Sheikh Othman, near Banias, not Hazor, ib. 26.

HEAD hunting, by wild tribes of Borneo, xxiii. 77—by wild tribes of Transgangetic India, xxvii. 91.

HEALTH as influenced by hygrometric state of atmosphere, xxi. 10.

HEAP. See Beale. HEAT, Tremendous at Baghdad, xxiii. 103—in North Africa, xxiv. 281—at Bushire, xxvii. 115.

HERALD.

HEATHCOTE, Lieut. I.N., survey of the Irawadi River, xxvii. 57.

HEATHENISM and Savagery, what they

are, xxiv. 293.

Hebran in Bashan, xxvi. 51; xxviii.

HEBRON in Judea, excursion to, xxiv. 17-Wallin's account of, xxv. 289; xxvi. 58, 59.

Hebrides, Surveys of, xxvi. p. cxciv.; vol. xxviii. p. cxlv.; vol. xxix. p. cxli.

Hebwe River, Lake Tanganyika, xxix.

Hecla and Griper Banks, Davis Straits, xxiii. 144.

Hector, Dr., of Palliser's expedition, First geological report by, xxx. 268. observations of temperature of soil and depth of frozen ground by, 276—report of winter journey to Rocky Mountain House, 277—report of explorations in Rocky Mountains, 296 observations for latitude, 303—second geological report, 309—allusions to, 276, 282, 286, 288—his merits, 292.

Hedyphon or Hedyphus River (Jerrahi), xxvii. 127.

HEGAIA (Hejaia?), tribe of Arabs, xxiv. 129, 130, 132, 133, 135, 138.

HERGHE Moon of West Tibeton table.

HEIGHT, Mean, of West Tibetan tableland, xxiii. 33.

Heights, Measurement of, xxi. p. lxiii.; xxiv. 336, 340, and see Sykes.

Heiluntzian or Sahalian Üla, in Manchuria, xxviii. 407.

Hejaia. See Hegaia.

Hejaz cannot supply India with horses, xxiv. 208.

-, Watershed of, xxv. 135.

Helbon, near Damascus, and its vines, xxiv. 28; xxvi. 44.

Helfer, Dr., of Euphrates expedition,

Helmersen, Col., his anticipation of Australian gold discoveries, xxii. p. lxxxiii.

Hembaps, or Dras, Ladak, xxiii. 14, 16, 27, 37.

Hemosura, name given to unknown African lake in 17th century, xxix.

Hemp of Vancouver Island, xxvii. 293. Henkries, Orange River, xxviii. 172.

Henzada, Pegu, xxvii. 80.

Henzawadi, name of Pegu province under the Burmese, xxvii. 64.

Heraclea, Thermopylæ, xxvii. 13.

Herald, Seemann's account of voyage of the, xxiii. p. cxx.

HERBERT.

HERBERT, Capt., Himalyan explorer,

Island, Baffin's Bay, xxiii. 140.

HERCULES Trophy, Laeonia, xxvii. 43,

HERMÆ, Laconia, ib. 41, 46.

HERMITANO, Samana, San Domingo, xxiii. 274.

HERMITS, Tibetan, in caves, xxiii. 18.

Hermon, xxiv. 25; xxvi. 44, 45, 53. See Jibal-es-Sheik.

Herndon, Lieut., his descent of the Amazons River, xxiv. p. xcix.; xxv. p. exxix.

Herne, Lieut., a member of Burton's Somali expedition, xxv. 137, 149, 150.

Herodotus, Illustrations of, as regards Darius at the Tearus. See Jochmus, xxiv. 44—cited as to Marathon, xxvii. 17, 18, 20, 22, 31, 32.

Herrings, vast numbers on Siberian coast, xxii. 121—fishery of, at Van-

couver Island, xxvii. 300.

HERSCHEL, Sir J. F. W., 'On a New Projection of the Sphere, xxx. 100.

--, Letter to, from Mr. Maclear, about Livingstone's observations, xxiv. 301.

—— Island, Arctic America, xxv. 197, 201.

HESANEH, division of the Anazeh Arabs, xxviii. 232.

HETEIM tribe on Red Sea, xxiv. 132.

Heuglin's Travels in Abyssinia, xxviii. p. clxviii. Hex River, Transvaal, xxx. 250.

HEZEKIAH'S Pool, xxvi. 56.

HHEIR, ruin in Syrian desert, xxx. 207. Hibbariyeh, Hermon, xxiv. 27.

HIBENO, Lake, South Central Africa, xxx. 140.

HICABERE River, South Central Africa, *ib.* 137.

Hichens, R. S., companion of Sevin, XXX. I.

HICULAI River, South Central Africa, xxx. 139.

HIDE trade, Zanzibar, xxix. 446.

High Peak, St. Helena, xxx. 264.

Нілгічан, Нејах, хху. 125.

HILL people of Aracan. See Tickell, xxiv. 86.

HILLAH, Euphrates, xxvi. 131, 132.

HIMALYA, STRACHEY ON PHYSICAL GEO-GRAPHY of part of, xxi. 57. See Strachey.

-, Geographical progress in regard to, xxii. p. cvi.—crest of, is not the watershed, xxiii. 8, 9, 34—snow-

HINTS.

line of, xxiii. 68-survey of, xxv. p. cxii.; xxvii. 64.

HIMYAR or Red Arabs probably gave name to the Red Sea, xxiv. 211.

HINCHINBROKE, Mount, North - East Australia, xxviii. 5.

HIND'S expedition in North-West America, xxx. p. cliv.

HINDERER, Rev. D., missionary in Yoruba, xxx. 214, 233.

HINDIEH, west branch of Euphrates opposite Hillah, xxvi. 140-143, 153.

Hindostan, New maps of, xxiii. p. cvii. See India.

HINDU tribes of Himalya, xxi. 81.

- religion in Borneo, Remains of, xxiii. 82—received through the Javanese, 83.

HINDYAN, north-east of Persian Gulf, xxvii. 109.

HINGGAN or Kinggan Mountains, Manchuria, xxviii. 379, 441. See King-

Hingkwoh district, Yangtsekiang, xxx. 89.

HINTS to TRAVELLERS; containing report by Sub-Committee of the Royal Geographical Society, consisting of Captain FITZROY, R.N., and HENRY RAPER, R.N. (with other Papers as follow), xxiv. 328.

Preface.—Hints to Travellers.—List of instruments; mapping, 330—latitudes, 331—for longitude; cross lunars; absolute altitudes; base-lines, 332—further remarks on instruments; artificial horizon, 333—barometers,

Extracts of a Letter from Admiral Smyth. — Miscellaneous remarks; longitudes, 338 — Professor Piazzi Smyth's universal instrument, 336 determination of heights; boiling thermometer; Adie's symplesometer, 337.

Extracts of a Letter from Rear-Admiral Beechey.—Arcs by chronometer; compass track; transits and lunars, 338—sextant; list of instruments; sights for chronometer, 339 — field delineation, &c.

Colonel Sykes on the use of common thermometers to determine heights.— (reprinted extract from vol. viii. of

the Society's Journal), 340.

Letter from F. Galton.—General remarks, 345—detail of outfit for explorer, 346—notes on the above, 349 -mode of using the sextant; observations for longitude, 350—the azimuth

HIONGA.

351 — triangulation compass, march; suggestions for carrying instruments, 352—hints for collecting geographical information, 353—descriptive geography, 357—ethnology and statistics, 358.

HIONGA, South-East Africa, xxx. 146. HIPPOPOTAMUS, XXI. 22; XXII. 149, 154, 168; xxv. 88—in East Africa, xxix. 175, 220—export of teeth, 444.

HIRAM-EM-DOWRAH, Palestine,

HIRETTIA Oya, Ceylon, xxvii. 339. Hirsova, Dobrudsha, xxvi. 205.

Hissar, north-east of Persian Gulf, xxvii. 108.

Hıт, in Bashan, xxviii. 242.

Hlaska, volcano in Atacama, xxv. 164. Hoang-ho, xxviii. p. exc., and Lockhart, 288 seqq.

Hoarfrost River, Arctic America, xxvi. 19.

Hobday's survey of Martaban, xxvii. 57, 59.

Hochow, Yangtsekiang, xxx. 80.

Hodgson, B. H., quoted, xxi. 81, 85. Hogs, Wild, in Borneo, xxiii. 75—on shore of Aral Sea, ib. 97—in South Central Africa, xxx. 141.

Hogar, Tawat, North Central Africa, xxx. 113.

Hogarth Inlet, Davis Straits, xxiii.

Hokanni Hills, Otago, xxviii. 304. Hol Fontein, Transvaal, xxx. 251.

Holes, Extraordinary circular, in rocks of Damara Land, xxii. 150.

HOLLAND, Geographical work of, noticed, xxii. p. cii.; vol. xxiv. p. xciii.;

vol. xxv. p. cxi.; vol. xxx. p. clxxxiv. Hollins, Commander, u.s.n., xxxii. 191,

HOLMAN, Lieut., the blind traveller, Obit. Notice, xxviii. p. cxxxiv.

Holmes, John, Obit. Notice, xxiv. p. lxxxiii.

Holothurion, sea-slug, or tripang, xxiii.

Holy Land, Remarks on travellers in, and scanty acquisition of information respecting, xxviii. 227—desiderata in geography of, xxx. p. exxxiii. See Robinson, Porter, Poole, Graham, Wallin.

Hombori, Sudan, xxiv. 283.

Home, Capt. Sir J. E.; Obit. Notice, xxiv. p. lxxxiv.

– Island, North Australia, xxviii. 6. — River, feeder of Murray River, xxv. 178.

HOPKINS.

Homeric anticipation of ocean as a current, xxiii. p. cxxxi.

Homra, well in Tripoli, xxii. 132. Homran, or "Coloured," a class of inhabitants in Ghadamis, xxx. 257.

Hondache River, Ecuador, xxviii. 339. Hondeklip Bay, Little Namaqua Land, xxviii. 168, 172.

HONDURAS, Some Account of the LAKE of YOJOA OR TAULEBE in. By E. G. SQUIER, U.S.A., XXX. 58.

– Railway, xxviii. p. clxxix.; vol. xxx. p. clvi.

Hongkong, Collinson winters at, xxv. 195, 196.

Honga, Kuhonga, or black-mail system in East Africa, xxix. 118, 148-9, et passim.

Honig-Kraal, near Upper Orange River, xxviii. 154.

Hoop, Point, Western Australia, xxii. 46. Hooker, Dr. Joseph D., quoted, xxi. 65—his explorations in Tibet, xxii. p. cviii.; vol. xxviii. p. clxxxvii.—his work on the Himalya, xxiv. p. xciv. – Creek, North Australia, xxviii.

56.

Hookhong, Upper Burma, xxvii. 56. Hoocow, Yangtsekiang, xxx. 87. Hoopeн Province, China, xxx. 88.

Hooper, Lieut. W. H., Obit. Notice, xxiv. p. lxxxiv.

——, Mr., R.N., his survey of Ruad or *Aradus*, xxiii. 156.

Hooping cough, mortality from, in Samoan Islands, and effect of vaccination, xxi. 226—among natives of West Australia, xxii. 54.

Hopango Lake, San Salvador, xxviii.

HOPE Island, North-East Australia. xxviii. 6.

HOPELESS, Mount, Central Australia, xxii. 270.

Hopkins, Thomas, On certain Arid Countries and causes of their dryness, xxvi. 158—The prime causes of dry winds the condensation of vapour, producing vacuum in certain localities within the Tropics, 159—illustrations from wind that blows from south, along west coast of South America, 160—along east side of Cordillera from Straits of Magellan, 161—from South Africa, 163, 164; Australia, 165, 166 — monsoon of Western Texas, 167 — localities of condensation, 171 — observations of winds by travellers much wanted, 173.

HOPKINS.

Hopkins, Thomas, On the Causes of the Mild Winter Temperature of the British Islands, xxvii. 206—Popular view of the effect of Gulf-stream questioned, 206-208—influence of cold winds in reducing temperature, 209—cause of cold winds; warming influence of a moist atmosphere, 212—instances; superior warmth of British Islands due to condensation of vapour, 218—corroborations, 218-220.

-, On the FINE RE-GIONS of the TRADE WINDS, XXVIII. 362 -Trade winds traced back from elevated land, forming areas of condensation, towards which they blow, to the parts where they rise and where fine weather prevails; condensation in Australia causes South Pacific trade; this, near its origin, from Juan Fernandez to the Equator is mild and steady; to north of the Equator, 363 -though mild, these winds cover great space, whence is the air supplied? The Hadleian theory gives no satisfactory answer, 364—answer on the theory of ascending atmospheric currents produced by condensation; best evidence as to the immediate source of the supply of air to be derived from its degree of dryness, 365—on this correct observations desirable, 366—some evidence afforded, 366-7—fall of dust recorded by Darwin at Cape Verde Islands when Harmatan wind blew from Africa, but the author seeks the source of it in ascending currents from the Andes passing eastward to feed the lower wind from that quarter, 368—also on the Indian Ocean the season of the south-west monsoon is fine in the Mozambique Channel, its place of origin, 369—here the immediate source of the air feeding the monsoon is unknown; further remarks as to the movement of masses of air, ascending over areas of condensation, losing their vapour and descending elsewhere as the origin of dry winds, 370-371.

Horba, Turk-land of the Tibetans, xxiii. 13.

HORNBILL, Great, in Aracan, xxiv. 107. HORNEMANN referred to, xxi. 134, 135.

Horner, Leonard, his suggestions as to ascertaining age of Nile deposits, xxii. p. exxiv.

Horns and cattle, Gigantic, of Botletlé Bushmen, xxi. 24.

HUEICOLHUACAN.

Horolog River, Amur, xxviii. 386.

Horsburgh on Zanzibar unsatisfactory, xxiii. 103.

Horses, of Arabia and the Shammar in particular, xxiv. 189—proposed supply for India from Arabia, 208—in East Africa, xxix. 394.

Horse's Head, Baffin's Bay, xxiii. 138.

Horse's Head, Baffin's Bay, xxiii. 138. Hor-Sok (Turk-Mongol), of the Tibetans, xxiii. 3.

Hor-Yul (Turkestan), of the Tibetans, ib.

Hor springs, in Tibet and Himalya, xxi. 68 – at Milo, xxii. 216—in West Tibet, xxiii. 58—in Darien, xxiii. 194—at Glidsha, Rumilia, xxiv. 49—in Fiji, xxvii. 250.

Hotan River, East Siberia, xxviii. 405.

Hotania, East Siberia, ib. 404.

Hotar, Ámur, *ib.* 439.

HOTHAM'S mission to La Plata, xxiv. 259.

HOTTENTOT names, impossibility of spelling, xxii. 143.

HOTTENTOTS, XXII. 156, 157—of Namaqualand, XXV. 103-106.

House, Rev. Dr., missionary in Siam, xxvi. 73, 74—on Cambodia. See Campbell, xxx. 182.

Houses on piles, in South-West Africa, xxii. 156.

Houwater, near Upper Orange River, xxviii. 158.

Howick Group, North-East Australia, xxviii. 6.

———— Hill, West Australia, xxii. 21. Hoyechow Island in Yangtsekiang, xxx. 83.

Huacaybo, district of Chihuahua, North-West Mexico, xxx. 17, 22, 24, 26, 29, 37.

Huahuachic, North-West Mexico, xxx. 25, 26, 29, 38.

Hualailai Volcano, Hawaii, xxv. 191. Huanaquero, site of meteoric iron in South Peru, xxi. 128, 130.

Huantajaya silver-mines, Tarapaca, xxvi. 229.

Huaranda, Ecuador, xxx. 65.

Huayna Pisagua, port in South Peru, xxi. 117.

HUAYNAPATA, Peru, east of Andes, xxv. 153.

Huc and Gabet's journey, xxiii. 3.

HUDAP, Bushman Kraal, South Africa, xxii. 137.

Hudson's Bay Company, on Vancouver Island, xxvii. 272, 275, 316.

Hueicolhuacan, North-West Mexico, xxx. 10.

HUEICOLHUES.

Hueicolhues, Indian tribe, North-West Mexico, *ib.* 12.

Hueso Parado, Atacama, xxi. 127.

Hufrah or water-holes in Arabian desert, xxv. 123.

Huilah, South-West Africa, xxx. 161. Hukwang Province, China, xxviii. 289,

Huleh Lake (Merom), Galilee, xxiii. 169; xxiv. 7, 23-25.

HULET Hauran, North Arabian desert, xxx. 206.

Huluce, Babylonia, xxvi. 140.

Hulum-Boir, Manchuria, xxviii. 409.

Hulun, Manchuria, ib.

Hulwan, Mountain, in Central Arabia, xxiv. 168.

Human Society in North Central Africa, a General Historical Description of. By Dr. H. Barth, xxx. 112.

Humara, Manchuria, xxviii. 409.

Humboldt, Alex. von, his opinion as to a canal across the American isthmus, and suggestion of the Atrato route, xxiii. 175, 176; xxvi. 174—his description of cold Pacific current, xxiii. 223; xxiii. 216—his opinion of the Landfall of Columbus, xxvi. 189 his summary of the Schlagintweits' observations, xxvii. p. clvii. — Obit. Notice of, xxix. p. cii.

- Glacier, Greenland, xxviii. 276.

Hume, Joseph, M.P., Obit. Notice, xxv. p. xc.—his services to the Society, ib.

Hums, Syria, xxvi. 54—lake of, xxiv. 33. Humuya River, Honduras, xxx. 60.

Hun, Huna, Hundes, Indian hill names of Tartars and Tartary, xxiii. 1—supposed reference to the *Huns*, xxi. 85.

Hunan, Honan, province of China, xxviii. 289, 294.

HUNDE Islands, Davis Straits, xxiii. 144.

HUNDES. See Hun.

Hungari River, Amur, xxviii. 439.

Hungarian traveller in Africa, xxiv. 271—and see Ladislaus and Amerigo. - battle with Turks at Kadikoi in 1444, xxiv. 84.

Hunin, Galilee, xxiv. 23.

Hunter River, New South Wales, xxii.

Hunz, a country west of Tibet, xxiii. 5. Hupih province, China, xxviii. 289.

HURMUL, monument of, near Baalbek, xxiv. 32; xxvi. 54.

Huron, Lake, xxii. 175, 176. Hurricanes. See Cyclonic.

ICY.

Hurs of the Wakhutu, East Africa, xxix. 98.

Hutt Plains, Northern Australia, xxviii.

- River, West Australia, xxii. 66.

Hutton, Capt. J. S., discovery of islands in South Indian Ocean, xxv. p. xcvii. -, Mount, Central Australia, xxii. 239.

Hybrids of Ibex and she-goat, Crete, xxii. 223.

Hydalgo Mines, North-West Mexico, xxx. 32.

Hydraulic arrangements, Central Arabia, xxiv. 177.

Hydrographic Office, labours of, xxix. p. clii.

Hyena of East Africa, xxix. 68.

HWANG-CHOW, Yangtsekiang, xxx. 89,

Hwang-Ho (or Hoang-Ho) or Yellow River, and the Yangtsekiang. By WILLIAM LOCKHART, XXVIII. 288; xxviii. p. xc.

I.

IABRIN. See Yabrin.

IAKOOT. See Yakut.

IANSOOA. See Yansua. IBADAN, Yoruba, xxx. 212, 213, 231.

lake region, East Africa, Ibanda, xxix. 265.

--, name of a chief in, ditto, ib.

IBARRA, Ecuador, xxx. 68.

IBEX, on Anti-Milo, xxii. 223.

IBN Batuta referred to, xxi. 133, 134; xxix. 31.

Ibo, Mozambique. See Silva Porto, xxx. 136, 145-147.

IBRAHIM Pasha's battle with the Bedawins at the Dead Sea, xxvi. 62.

Ibrahimabad, Yezd, Persia, xxv. 19.

Ibraila, Danube, xxx. 163. Ibukun, Yoruba, xxx. 219.

Ice; on Caspian, xxi. 5; drift of, to the south, from Baffin's Bay, xxvi. 34; and see Irminger, ib. 36.

- of Greenland, On the continental, and on the origin of ICEBERGS in the Arctic Sea. By Dr. H. Rink, xxiii. 145.

- fox, xxii. 119.

ICEBERGS; great and numerous (Inglefield), xxiii. 138. See also Rink's paper just named.

Ichai, Manchuria, xxviii. 385.

Icy Cape, Russian America, xxv. 205.

ICY.

Icy Cove, Arctic America, xxii. 80. Idaera, in Darfur, xxiii. 120.

Idda, Igara country, Kwora River, xxv. 111.

IDENTITY of race in most South African Tribes, xxvii. 370.

IDOLATRY not a desert religion, xxiv.

Idols of the Balonda, South Central Africa, xxv. 222.

Ife, Yoruba, xxx. 215, 216, 231. Ifilfelt, oasis in Sahra, xxii. 135.

Igara country, Kwora River, xxv. 111. Igbegbe, confluence of Kwora and Chadda, xxv. 112, 120.

Igbira country and tribes, Chadda River, xxv. 112, 113.

IGBO, territory of, Kwora River, xxv. 111.

IGBOMMA, district of Yoruba, xxx. 221, 231.

IHARA Plain, site of Kazch in Unyamwezi, xxix. 179, 180.

Ihekoolowadia, Ceylon, xxvii. 363.

Ihram, or ceremony of assumption of Pilgrim's garb in Mecca Caravan, xxv. 130.

IJA River, East Africa, xxv. 207. IJESHA, Yoruba, xxx. 216, 219, 220. IJIL, Mount, West Africa, xxx. 114. IJon, Syria, xxiv. 24.

Iki River, Amur Land, xxviii. 428. Ikuka, East Africa, xxix. 128.

Ila, Yoruba, xxx. 220, 221.

ILACHUMRA River, Amur Land, xxviii. 430.

Ile la Crosse Lake, xxii. 183, see also xxvi. 25.

Ilesha, Yoruba, xxx. 216, 217. Ilhuri Alin Mountains, Amur, xxviii. 383.

Ilinsk, Siberia, xxviii. 377.

ILIYATS, Eeliats, Persian Nomads, xxv. 46, 72, 77; xxvii. 111, 166, 170, 171, 174; and see *Nomad*.

Illiena, Balkan, xxiv. 67.

Illingworth, Capt. John, transports a ship's boat from the Bay of Cupica to the Napipi flowing into the Atrato, xxiii. 195.

Ilopango Lake, San Salvador, xxx.

Ilorin, Yoruba, xxx. 212, 223, 226, 231. IMAM of the Druzes, xxviii. 258.

-- of Maskat. See Muskat.

IMAMS, i.e. tombs of holy personages in Mesopotamia, xxvi. 133 seqq.

Imbabura Provinces, Ecuador, xxx 68. IMERETIA, XXI. 6, 7.

Imoshagh, Berbers of Sahra, xxx. 117.

INFANTICIDE.

Impediments to Darien Canal, special, xxiii. 185.

Imports into East Africa, xxix. 421.

IMRAD or Merathah, race of the, Sahra, xxi. 167.

тматі, Mokkua, East Africa, xxiv. 287. Incas, Road of the, in Atacama, xxv.

-, extent of their empire, xxvi. 210.

India, plain of, xxi. 59—Trigonometrical Survey and other Geographical Progress Reviewed, xxi. p. Ixxvii; vol. xxii. p. cvi.; vol. xxiii. p. cvii.; vol. xxiv. p. xciv.; vol. xxv. p. exi.; vol. xxvi. p. cexx.; vol. xxviii. p. clxxxiii.; vol. xxix. p. elv.; vol. xxx. p. clxx.; some larger statistics of, xxx. p. clxxi. See also Geological Survey and Map.

- Rubber collecting, Eastern An-

des, xxv. 154.

Indian Ocean, Evans's chart of, xxvi. p. exeviii.

– relics and shell-heaps in San

Domingo, xxiii. 278, 280.

Indians, of South Peru, xxi. 122—of Peru, xxvi. 219—of Peru, East of Andes, xxv. 154 seqq.—of Darien Isthmus, xxiii. 186; and Prevost, xxiv. 249 seqq.—of Rio Negro, xxiii. 216 of Vancouver Island, xxiii. 246, 247; and xxvii. 268 seqq., especially 293-310; of adjacent continent, 319-of Ecuador, xxviii. 340 seqq.; and xxx. 73—of British Columbia, protection of, xxix. p. ec. — of North-west Mexico, xxx. 12, 25, 30, 37-39—of Rocky Mountains, 276, 278, 279 (Circees), 286 (Kutainie), 289, 295— Assineboine, 297, 300.

Indo-Chinese countries, xxx. clxxii; also see Burma, Siam, Cambodia,

Aracan; wild tribes, xxvii. 65.

Indus River in Tibet; feeders of, xxi. 64; xxiii. 7, 8, 10-14, 17, 20-22, 24, 28-30, 34—mythologic source, 35 area of basins drained by, 36-length of affluents, 37—volume, 41-43—fall, 44, 45—Débâcles caused by glacier stoppages high in Balti, 55 seqq.floods in Indian plain not connected with these, 57—freezing of, 58-60,

Inena, Lake Route, East Africa, xxix.

Inenge, Lake Route, East Africa, xxix. 119.

Infanticide among Vancouver Indians, xxvii. 304.

INGHIRAMI.

Inghirami, Padre, Obit. Notice, xxii.

INGLEFIELD, Comm. Ed. A., R.N., Report on the return of the *Isabel* from the Arctic Regions, xxiii. 136—account of the fitting of the vessel by Lady Franklin, and terms on which the voyage was made; sailed 6th July, 1852, 137—proposed course; leave Upernivik; Melville Bay, 138— Esquimaux; North Omenak villages, 139—search for traces of alleged murder of Franklin, ib.—the story a cruel falsehood; exploration of Whale Sound, 140 — Esquimaux; enter Smith Sound, 141—ice, and a gale; obliged to turn in highest latitude yet reached in Baffin's Bay, 142 enter Jones's Sound; probable entrance to Polar Basin, 143—weather unfavourable, and obliged to leave; make for Beechey Island, and collect accounts of Belcher's squadron, 144examine west coast of Davis Straits, 145—carried past Hogarth Inlet and obliged to make for England.

List of places named in Map.

ferred to, xxiii. 130; xxvi. 2.

Inglis, Sir Robert Harry, Obit. Notice,

xxv. p. xci.

– Peak, Jones's Sound, xxiii. 142. — Bay, Arctic Sea, xxv. 264.

Inhambane, Portuguese settlement, South-east Africa, xxii. 140; xxvii. 381; xxx. 144.

Inhanzana River, Zambezi, xxx. 155.

Injekis, Rumilia, xxiv. 39.

INKLE Doorn Station, Transvaal, xxii. 138.

Inman Harbour, Arctic Sea, xxii. 84. INOCULATION among Nomads in Fars, xxvii. 171.

Insalak, Tawat, Sahra, xxx. 113.

Inscribed Stones; and rocks, in Central Arabia, xxiv. 165—in desert east of Bashan, xxviii. 236.

Inscriptions; Roman, in Jibal of Tripoli, xxii. 135—Greek, at Seleucia, xxiii. 160—search for, at the Tearus in Rumilia, see Jochmus, xxiv. 44.

Insects of Louisiade Archipelago, xxi. 16—of the Hinggan Mountains, xxviii.

422.

Insigazi, Lake Tanganyika, xxix. 244. Instruments; for travellers, remarks on, xxi. p. c.-recommended for travellers, xxiv. 328 seqq., 355. Also Everest, xxx. 315 seqq.

Insula Allobrogum, xxv. 183.

IRRIGATION.

Interior of Africa, formation of, xxii. p. exxi. seqq.; xxvii. 352 seqq.; xxix. p. clxxxiv., and 21 seqq.

Invercargill, Otago, xxviii. 298 seqq.

Investigator, H.M.S., xxv. 195.

Invulnerables, Fiji, a class superstitiously so considered, xxvii. 251. Iquique, Port of Tarapaca, xxi. 105,

107; xxiii. 206.

Iralla, South-East Africa, xxx. 142. Irawadi River; surveys of, xxvii. 54 seqq.—sources, 66—course of, 68—defiles of, ib., 69, 79—Delta, 80.

IRBY Point, West Australia, XXII.

51.

- and Mangles, cited, xxvi. 45.

IRELAND. See Coast Surveys.

IRMINGER, Capt. E., Danish Navy, on the ARCTIC CURRENT round GREENLAND xxvi. 36—masses of ice drifted from Sea of Spitzbergen close to southern shores of Greenland; forcing ships to keep south and west where they find open water; the course out averaging 123 miles, and home 107 miles, south of Cape Farewell, 37—table showing the course of 20 voyages, 38—from these and more detailed statements concludes that there is no continuation of the northern current from Greenland to Newfoundland as has often been said, 41—which the high temperature of the sea in that course also disproves, 42—the current in fact passing round Cape Farewell, and up into Davis Straits, though afterwards turning and joining the southward current along the western shore of that Strait, 43.

Iron; Meteoric, in Atacama, xxi. 127, 128 — xxv. 166, 171 — excellent, wrought in Makololo country, xxii. 170 —in Borneo, its high quality and price, xxiii. 72—of Ukambani, East Africa, xxiii. 117—wrought by the Lawas East of Burma, xxvii. 91—on Zambezi, 379—in Usukuma, African Lake Region, xxix. 261, 269 —in Karagwa, Lake Nyanza, ib. 228 —in East Africa generally, 382.

 Gates of Danube, xxx. 162, 163. - Workers, a degraded caste in Arabia and East Africa, xxix. 312. Iroquois Boutes (Bowsmen of canoes)

xxvi. 20.

Irora, Unyamwezi, xxix. 186.

IRRIGATION; in South Peru, by subter ranean channels, xxi. 111—in North Arabia, xxiv. 140, 148, 162—in Central Arabia, 177, 199—in South Peru, IRUMBO.

xxvi. 231—wheels for, in Burma, xxvii. 76.

Irumbo, South Central Africa, xxx. 162. IRVING, Washington, on the Landfall of Columbus, xxvi. 189.

—, Dr. Edward George, Obit. Notiee, xxvi. p. elxxvii.

Irwin, River, Western Australia, xxii.

Isabel, Report on the return of the, by Comm. E. A. Inglefield, R.N., xxiii.

Isabella Island of Columbus, xxvi. 198, 199.

Isakcha, on Danube, xxiv. 47.

Isamiru, near Lake Nyanza, xxix. 270. Isanna River, tributary of Rio Negro, xxiii. 213.

Iseri, Manchuria, xxviii. 408.

Ishforkan, Fars, xxvii. 182.

Ishmael, as the type of one element in the Arabian people, xxiv. 209.

Ishretabad, Nain, Persia, xxv. 14.

Isinplu, Balkan, xxiv. 58.

Iskanderun (Seanderoon), xxiii. 162.

Isla Blanea, Ataeama, xxv. 160. Islands of Red Sea, xxiv. 229.

Islay, Arequipa, xxi. 100.

Isle à la Crosse, British North America, xxvi. 25. See Ile la Crosse.

Isluga Voleano and Town, South Peru, xxi. 119, 123.

ISMAIL, and branch of Danube ealled Ismail Chatal, xxx. 163, 164.

Isola de Paz, Chuqunaque River, Darien, xxvii. 197.

Isothermal Zone in Georgia, xxi. 5.

—— lines disprove effects attributed to the Gulf-stream, xxvii. 208.

Ispahan to Yezd, Route, xxv. 10.

Israel, Stations of, in the desert, except three, are unidentified, xxiv. 212.

Israel's Passage of the Red Sea, *ibid*. Istahvonat or Savonat, district, Shiraz,

Persia, xxv. 75.

Isthmus of Panama and Darien, and proposed routes across it by canal or otherwise, xxi. p. xeiv.; Fitz-Roy, xxiii. 171—boat brought from Pacific to Napipi River, xxiii. 195—anticipated effect of a canal upon the Gulfstream, xxiii. 221—antieipated effect of a canal in shortening voyages, ib. 239—Kelley, xxvi. 174—xxviii. p. clxxix. seqq.; xxix. p. ecviii. See also Prevost, Gisborne, Friend, Ocrsted.

Istomin, a member of Aral Survey, xxiii.

Isuama, Igbo, Kwora River, xxv. 111.

JAGAS.

Geographical Progress and ITALY, Work, xxiii. p. xeix.; vol. xxv. p. eviii. seqq.; vol. xxvi. p. eciii.; vol. xxvii. p. exlvii.; vol. xxviii. p. elxxiii.; vol. xxx. p. clxxxv.

-, Austrian Map of, xxii. p. cii. vol. xxv. p. cviii.; vol. xxvi. p. cciv.

vol. xxvii. p. exlvii.

-, French Coast-Surveys of, see

Coast. Also see Rome.
Itaokon, Yoruba, xxx. 215.
Itesan, Tuwarik Tribe, xxi. 139, 149
166, 168.

ITINERARIES. See Routes.

Ititenya, Unyamwezi, xxix. 180.

Itza Lake, Vera Paz, xxx. 58.

ITZECHADZUE River or River of Mountains, British North America, xxii. 186, 190.

Ivory; Waste of, on Zouga River, South Central África, xxii. 171—in Sekeletu's eountry, xxv. 220—trade in, in Eastern Africa and at Zanzibar,

xxviii. 200, xxix. 325, 441 seqq. Iwanza or Village Hall in Eastern Africa, xxix. 201, 362, 417.

Iwemba, Lake Tanganyika, ххіх. 258, 305.

Iwo, Yoruba, xxx. 212.

Iye, Yoruba, *ib.* 223.

Izalco River, San Salvador, xxviii. 353.

Izote River, San Salvador, ibid. IZTAPA, Guatemala, ib. 360. Izzabad, Yezd, Persia, xxv. 19.

J.

Jabesh, xxiv. 20, 21.

Jackal Font, South Africa, xxviii. 154. Jack-Fish Lake, British North America, xxx. 281.

Jackson, Col.; his Geographical Publieations, xxi. p. lxx.; Obit. Notice of, xxiii. p. lxxi.

JACOB River Settlement in Otago Province, New Zealand, xxi. 25, 26 xxviii. 310, 314 seqq.

Jacobshaven, Greenland, xxiii. 152, xxviii. 278.

JADAYDAH, on road to Medina, xxiv.

Jade Mines in Upper Burma, xxvii.

Ja-el-Sharifah, Hejaz, xxv. 123.

Jaferkoi, Balkan, xxiv. 53.

Jaffa, xxvi. 55.

JAGAS, Jagga, people of East Africa, xxiii. 116; xxix. 313.

JAGDHA.

Jagdha River, Eastern Siberia, xxviii. 380.

JAGERSBERG Hills, South Africa, xxviii. 164.

JAGUAR, XXX. 6.

168.

Jahnavi, Ganges feeder, xxi. 64.

Jaitique River, Honduras, xxx. 60.

JAKOBSHAVEN Fiord. See Jacobshaven. Jal-al-Jauf (spelt Gal-algawf), mountain ring round Aljauf, North Arabia, xxiv. 138, 139, 144, 151, 152, 159,

Plain, JALTEPEQUE San Salvador, xxviii. 357.

JALUD River, Galilee, xxiv. 22.

James, Col. Sir Henry, R.N., Description of Projection used in Topographical Department of War-office, for large portions of earth's surface, xxx. 106.

-, Observations on Figure, Dimensions, and Density of the Earth referred to, xxvi. p. clxxxix.; new Projection of Sphere, xxvii. p. clxi.; vol. xxix. p. clii.

Jamahey. See Zimme, xxvii. 104, &c.

Jambeho, road to Lake Tanganyika,

xxix. 209, 210.

JAMESON, Dr. WILLIAM, Excursion from Quito to the River Napo, xxviii. 337 -object of journey; eastern chain of Andes; Papallacta; Rio Vermejo, 338—Guacamayu, 339—Archidona; the Indians, 340—the blow-pipe; sandflies and biting bats, 341—humming birds and ferns; embark on the Napo, 342—the Vaca Marina; Jaguar; Santa Rosa, 343—convict Governor; Zaparos Indians; the blowtube; poisoned weapons; cinnamon of the country, 344—tree full of nests felled; Aguano; rock salt, 345—Port of Napo; does not think the route can become useful; Archidona; detention; appointments and perquisites of the Governor; start for Quito, 346 -desertion of Indians and difficulties; rain, earthquake, and return to Archidona; at last got to Quito, 349.

-, Prof. Robert, Obit. Notice, xxiv. lxxxiv.

Jamli Fruit, xxix. 36.

Janet or Mas Valley, Ghat, Sahra, xxx. 113.

Janferabad, Shiraz, xxvii. 150.

Jangi, Niger, xxx. 230.

JANGOMAI. See Zimme, xxvii. 55, 62, 104.

JAPAN; United States Expedition to, xxv. p. cxiii.; Columbus's ideas about

JERZUN.

reaching, xxvi. 195, 198—Remarks on, xxix. p. clxxv.; Coast Surveys of, xxvi. p. exeviii.; xxix. p. exlv.

Japanese charts cited on currents,

xxiii. 229.

- junk driven to Sandwich Islands, ib. 230.

JAPURA River, tributary of Amazon xxiii. 214.

Jaripeo, Eastern Mexico, xxx. 55.

Jarvis Inlet, Vancouver Island, xxvii.

Jasper Range, North Australia, xxviii.

Jaulan (Gaulonitis), xxvi. 53; xxviii. 234, 260.

JAUREGUIBERRY, Lieut., French Navy xxvii. 192.

Java; the only great Island of the Indian Archipelago which has a popular name as a whole, xxiii. 69—its Teak, 75.

Jeba (*Geba*), Lebanon, xxiv. 3, 9. Jedis. See *Pagodas*, *Buddhist*.

Jedouri Tribe, Tripoli, xxii. 132. Jedur (*Ituræa*), xxvi. 53; xxviii. 234.

-, in South of Judea, xxiv. 17.

Jefat (Jotapata), xxiv. 8.

Jefferies, Lieut., on Australian current xxiii. 227..

Jehrum, South Persia, xxvii. 163, 164.

Jeida, Galilee, xxiv. 8.

Jellalabad, Kerman, Persia, xxv. 26 another, ib. 64.

JELTUHA River, Amur Land, xxviii.

Jembe or hoe of East Africa, xxix. 396. Jenakhera, South of Darfur, xxx. 123. Jenkyn, Rev. Dr., Obit. Notice, xxix. p. cxxxiv.

Jerboa Rat, xxx. 200.

Jerein, Lejah, Bashan, xxviii. 260.

Jericho, xxvi. 69.

Jerju'a, Lebanon, xxiv. 3, 5.

Jerrahi River (Hedypnus), Khuzistan, xxvii. 109, 112, 127, 190.

Jerud (Geroda), near Damascus, xxvi. 47.

Jeruft, Kerman, xxv. 46.

JERUSALEM; and questions connected with its topography, xxiv. 12-16-Aldrich and Symonds's Map accused of error, ib. 13-Wallin at, xxv. 290xxvi. 55—Rainfall at, 57.

—, Journey from Cairo by Mount Sinai to. By Dr. G. A. Wal-

LIN, XXV. 260.

Jervis, Lieut.-Col. T. B., Obit. Notice, xxvii. p. ex.

Jerzun, Khuzistan, xxvii. 113.

JESUITS.

Jesuits; in Vancouver Island, xxvii. 309—their judgment in selection of sites, ib. 381—praise of their missions in Siam, &c., xxx. 176.

Jesus Maria Mines, Mexico, xxx. 26.

y José Mines, Mexico, ib.

51.

Jeukskei River ("Yoke-key"), tributary of the Limpopo, xxiv. 289.

Jewish aspect of some North Arabian Tribes, xxiv. 134.

- Settlement at Kaifongfu, in China, xxviii. 294—note by

Drach on, 297.

Jews in Tripoli, xxii. 132, 134.

JEZIREH ("The Island" i. e. Mesopotamia), xxvi. 131, 137, 141.

JEZREEL, Plain of, xxiv. 22.

Jezzin, Lebanon, xxiv. 3, 27.

JIBAL, Jebel, the hill country of Tripoli, xxii. 132, 133, 134.

-, Al'arid ("The Broad"), Arabia, xxiv. 173.

-, As-swad ("The Black"), Tripoli, xxiv. 278, 281.

- Esh-Sheikh (Hermon), xxiv. 25-

27. See Hermon.

— Hasan, Arabian Desert, ib. 116.

— Jermuk, North Palestine, ib. 6.

— Rihan, Lebanon, ib. 3.

-- Salahiyeh, in Antilibanus, xxvi. 46.

- Shammar, Arabia, xxiv. 144, 167, 168, 175. See Shammar.

- Tir (spelt Gibel Teer), Voleanie

Island in Red Sea, ib. 237. - Ziniyeli, Hill near Damaseus, xxvi. 45.

- Zugar, Red Sea, xxiv. 227.

JIBBEL, Ispahan, xxv. 12.

Jiboa River, San Salvador, xxviii.

JILJULIEH (Gilgal), Palestine, xxiv. 10. JIMMA Country (East Africa), Account of the, communicated by Sir Gardner WILKINSON, XXV. 206.

JINGU River, Amazon feeder, xxv. 216.

JINNI on the Niger, xxx. 122, 124.

Jiphtha-el, Valley of, Galilee, xxiv. 8. Jiquilisco, San Salvador, xxviii. 357.

Jirreн, Plain of, Fars, xxvii. 182.

Jisa Khurdela, near Litany River, Syria, xxiv. 24.

JIWE la Mkoa Mountain, Lake Route, East Africa, xxix. 139, 155, 157, 158.

-- Singa ("Rock of Soft Grass"), East Africa, ib. 155, 157.

JIWENI, East Africa, *ib.* 158. JIZZEH, Nain, Persia, xxv. 13.

Job, Druze notions of, xxviii. 259.

JOCHMUS.

Jobie Island, New Guinea, xxx. 174. Jochmus, Lieut. General A., xxvii. p.

--. Notes on a Journey into the Balkan or Mount Hæmus, xxiv. 36—Set out from Constantinople; post-horses; Buyukderbend; Chatalcha, 37—eaverns of Injekis, 39—Greek at a discount, 40— Tumuli; the Nizam eostume, 41— Tumuli, 42—Vysa; Bunarhissar, 43 —the Sahib Zeman or Coming Man; search for inscription mentioned by Herodotus, 44—waters of the Tearus; Kirk-kelesia, 46-the Teke River (Artiscus); Tumuli of Darius, 47— Illustrations of Herodotus; Rusukastro, 48—Burghas, 49—Aidos; Tumuli; unsettled state of eountry, 50— Misevria (Mesembria); the HamusPasses explored, 51—Monastir Koi, 52—Bana; Gypsies; Karamaneha reeross the Balkan by Kaldumaj to Akhli, 53—superiority of the Turkish race, 54—elopements of Christian women; errors of Von Hammer about Balkan passes, 56—their great number; waste of oak timber; and ruinous system, 56—Boghazdere; pass the Balkan to Karalla; and Dobral, 57— Tumuli; Karnabat; Gypsies; repass to Isinplu, 58—and Papas-koi; pass Little Balkan, 59—Kazan; its prosperity; and virtual independence the national centre of Bulgaria, 60 descend to Veehera; pass Balkan to Selimneh, 61—like Damascus; emigrations into Russia; character of Bulgarians, 62—Montresor's march on Kazan, 63—sympathy of Bulgarians for Russians; contempt for Greeks, 64—absurdity of a revived Greek Empire, 65—pass Balkan by Demirkapu Derbend to Stareka, 66 from Stareka by Illiena to Convent of St. Nieolas, 66-68—to Tirnova, 68 frequent changes in Pashas, 70—Mr. Borrows alleged Gypsy metropolis, 71—return to St. Nieolas by Ravditza, 70—to Hassan Faki, 71—dress of Bulgarians, 72—to Kazan, 73—from Kazan by Sadova over Little Balkan to Chalik Kavak, 75—repass Little Balkan to Lubnitza and Buyuk Chenka, 76—to Kopri Koi; Markovcha and Shumla, 77—Diebitch's position, 78—Shumla; to Parayati, position, 78—Shumla; to Paravati, 79—to Varna, 80—at Varna; the Paravati River (Lyginos); remarks on Arrian's account of Alexander's

JOCHMUS.

actions here, 81-83—Darius Alexander and Diebitch operating by same lines, 83—battle of Turks and Hungarians in 1444; fictitious plan of Varna, 85—fortifications of Varna, ib;

return to Constantinople.

Jochmus, Lieut.-General A. COMMEN-Taries on various Ancient Campaigns (Philip against Thermus and Sparta; Brennus against Thermopylæ and Ætolia; battle of Marathon; battle

of Schlasia, &c.), xxvii. 1.

1. Expedition of Philip (V.) of Macedon against Thermus and Sparta. Position of Thermus, and approaches, 1—the account of Polybius, 2 — determination of Metapa (Couvélos), 4 — and of Trichonium, 5—absurdities involved in former identifications, 6—consummate generalship of Philip, 7—his following campaign against Sparta, 8 -narrative of Polybius; celerity of Philip, 10—the Eurotas, 11—remarks on Philip's tact; the River Tripy (Knakion), 12—map references of the movements in Polybius.

Operations of Brennus and the Gauls against Thermopylæ and Ætolia, 12—the River Sperchius fatal to invaders, 13—positions of Thermopylæ, Carpenitza (Callium) and Macrinoros; forces of Brennus and the Greeks; check of the former at Thermopylæ and Mount Œta, 14—resolves to turn the barrier; statement of Pausanias; comments and errors of Pouqueville, 15.

Commentaries on Battle of Marathon, 16—descriptive notices of the field; incorrectness of most commentators on the battle, except Leake, 17 —account by Herodotus, 18—numbers engaged, 19—extent of Athenian line, 20—exaggeration as to Persian cavalry, 22—other exaggerations as to Persian numbers and modern parallels, 24-27—corrected estimates, 28—supineness of Oriental Generals; further remarks on the battle, 29 the strategy of the Greeks successful, but without reserve, and rash, 30—observations on Col. Leake's Map of Marathon, 31—and on that of Kruse, 33.

On the Battle of Sellasia, and Strategic Movements of the Generals of Antiquity between Tegea, Caryæ, and Sparta, 34—site of Sellasia hitherto undetermined, 34—discovery

JOSEPHUS.

by Gen. Jochmus, 35—Mounts Eva and Olympus; position of Cleomenes, 36—forces on both sides; order of battle of the Lacedæmonian General, 38—order of attack of the Macedonian, ib.; charge of Philopæmen, 39 error of Euclides, 40—loss of the Lacedæmonians, 41 — parallel with battle of Blenheim, ib.; on the high road from Thyreatis into Laconia, ib.; on the Tanus and Triple Frontier at the Hermæ, 43—Temple of Jupiter Scotitas in the oak forest of Scotita; on the site of Caryæ, 44—on the Temple of Apollo at Thornax, 45 on strategic movements of the ancients between the Hermæ and Sparta, 46—Livy's narrative of the operations of Philopæmen against Nabis, 47—site of Caryæ, 49—Mount Barbosthenes, 52-Pyrrhi Castra; defile of Marina.

Jocotan, San Salvador, xxviii. 350.

JOHN of Austria, Archduke; Obit.

Notice, xxix. p. cxii.

Johnston, A. Keith; his General and Physical Atlases, xxii. p. lxxxvii; New Edition of Physical Atlas, xxvi. p. ccxxix.; Royal Atlas, xxix. p. clxii.; his Table of Hurricanes, xxv. 292.

Jokneam of Carmel, xxiv. 9.

Jolof Tribe, and meaning of name, Negroland, xxx. 116, 119.

Jomard's Series of Medicinal Maps, xxv. p. cv.

Jones's Sound, Baffin's Bay, xxiii. 137 —entered by Inglefield, 142—quitted by Inglefield, 143; xxvi. 11.

Jongo River, South Central Africa, xxx.

Jongoliani Bay, Zanzibar Coast, xxviii.

JONKER Afrikaner, and his relations with Missionaries, xxii. 142.

- Water, South Africa, xxviii. 162.

Joosh, Oasis in Tripoli, xxii. 132, 134.

JORDAN River; in relation to Capt. Allen's Theories of Dead Sea, xxiii. 164—Ford on, near Sakut, xxiv. 20-22—Sources, 25; xxvi. 45—near Jericho, described, 69—traces of irrigation from, 70; xxviii. 227, 261, 262.

Joseph's Well, West Australia, xxii.

Josephus, Identification of places named by. See Robinson passim.

JOSTAH.

Josiah Tabou, late King of Tonga, xxi. 227; xxii. 98.

JOTAPATA, Galilee, xxiv. 8.

Ju'ait River, Lebanon, ib. 34. Juan Godoi, Mining Town in Ataeama, xxiii. 199.

Juani Tribe in Tripoli, xxii. 132.

JUBBE. See Gubbe.

Jubu, or Mule between Yak and Indian Cow, xxi. 80.

Jucuapa Volcano, San Salvador, xxviii.

JUDAISM, Traditions of, in North Arabia, xxiv. 157.

Judeideh, Plain near Damaseus, xxiv. 29; xxvi. 44.

Juli or Dhiuli, People on the Upper Niger, xxx. 118.

Julianehaab, Greenland, xxvi. 39; xxviii. 378.

Julius Cæsar's Landing-place in Bri-

tain, xxvi. p. ccxxii.

July Temperature; the index of occurrence of species of animals in Arctic Regions, xxii. 122—lowest, in American Arctic Regions, ib.; in Asiatic Regions, 124.

Jumna River, Sources of, xxiii. 9.

Junin, a Department of Peru, xxvi. 219, 224.

Junk-Ceylon Island, xxvii. 62.

JUPITER Scotitas, Temple of, Laconia, xxvii. 41, 43.

Jurupari Caxoeira, Fall on River Uaupes, Rio Negro, xxiii. 215.

Justin cited, xxvii. 19, 26.

Justinian's Aqueduct, near Constantinople, xxiv. 37.

Jusy, Ruins of, Coele Syria, xxvi. 53.

K.

Kabara, near Timbuktu, xxiv. 284. Kabass Hills, South Africa, xxviii. 174. Ka'bet-al-Alam, Arabia, xxiv. 137.

Kabizia Island, Lake Tanganyika, xxix. 245, 246.

Kabompo, Zambesi, xxvii. 363, 364. Kabul (Cabul of Scripture), xxiv. 8.

KACHEYUL, Tibetan name of Kashmir, xxiii. 2.

KADETAMARE, Lake Route, East Africa, xxix. 114.

Kaderabad, Borders of Lar, Persia, xxv.

Kadi-koi, Balkan, xxiv. 77, 80, 84.

Kados, a Tribe of North Burma, xxvii.

KAFAR, Village of Hail country, Central

KALAI.

Arabia, xxiv. 181, 182, 201, 202,

Kaffa, South Abyssinia, xxx. 131, 133,

Kafirs. See Caffres.

Kafue River, or Bashukalompo, Zambesi, xxvii. 364; xxx. 141. Bashu.

KAFURO, East African Lake Region, xxix. 283.

Kagunga, on Lake Tanganyika, ib.

Kahir. See Air.

KAHTAN and Adnan, Great Divisions of the Arabian Tribes, xxiv. 188, 191, 192, 195, 196.

Kaidorp Grootport, Namaqua Land, xxii. 137.

Kaifungfu (China), Jewish Settlement at, xxviii. 294—Note by S. Drach on, 297.

Kaiku, Manchuria, xxviii. 408.

Kailas or Kailash, Peak in Tibet, xxi. 62-64; xxiii. 13, 24, 26, 39, 48.

Kaingma, Shan State, East of Burma, xxvii. 58, 59, 88, 90, 98, 104, 107.

Kajar Tribe in Persia, xxvii. 113. Kajjanjeri, Unyamwezi, xxix. 191.

KAKA'IYEH, on the Litany, Syria, xxiv. 4.

KAKHYENS, Tribe of North Burma, xxvii. 66, 67, 91, 92.

Kakhzung, District of Ladak, xxiii. 13, 16—its valley, 28, 41.

Kaki, Amur, xxviii. 434.

KAKKABEKKA or Kakabica Falls, British North America, xxii. 177.

Kaksa, Burma, xxvii. 72. Kakuas, Wild Race, East of Burma, xxvii. 91.

Kakuis, Wild Race, East of Burma, *ibid.* and 100.

Kakus or Kakhyens, q.v.

Kala Safed, Fars, xxvii. 113, 116.

N.B.—Kala, Kala'at, Kaleh ali represent the same word.

Kala'at Mulkhezi, Babylonia, xxvi. 143, 144.

—— Muthlim, Babylonia, ib. 143. --- Shermanieh, Babylonia, ib. 141.

-- Wadi, Babylonia, ib. 134.

KALABARI, Kingdom, South Central Africa, xxiv. 271.

KALAHARI Desert, South Africa; Bushman people of, xxii. 164; xxv. 81, 82 —described, 101; xxvi. 85. See also Desert and Bakalahari.

Kalai, Zambesi River, xxvii. 358, 361.

KALAMANTAN.

KALAMANTAN, alleged name of Borneo, xxiii. 69.

KALANTAN, Malay State, xxvi. 72.

Kalamo, Mount, in Milo, xxii. 215, 219. KALAWAWE, Tank in Ceylon, xxvii.

Kalb Tribe of Arabs, xxiv. 157, 158, 170.

Kaldumaj, Balkan, xxiv. 53.

Kale, Burma, xxvii. 72, 73.

—— Bombwé, Cataracts on Upper Zambesi, xxiv. 295, 304.

Kaleh Padaz, Nain, Persia, xxv. 14.

—— Kulu, Kellahi, South Persia, xxvii. 168.

—— Zohauk, Fessa, South Persia, xxvii. 154.

KALGAN, Northern Frontier of China, xxiv. 311.

Kalguddering, West Australia, xxvi.

Kali Sefer, near Kum, Persia, xxv. 8. KALK Fontein, South Africa, xxviii. 157.

KALODAN River, Araean, xxvii. 74; and see Koladyne.

Kalogeros Isle, Milo, xxii. 205, 212.

Kalon Lake, or Dalai Nor, Eastern Siberia, xxviii. 378.

KALUNDA, South Central Africa, xxiv.

Kама, Burma, xxvii. 76.

- River, South Central Africa, xxx. 139.

KAMA-KAMA, Interior South Africa, xxiv. 291, 301-303.

Kamara River, or Kumar Bira, Manchuria, xxviii. 381, 385, 445.

Kamba, Fiji, xxvii. 234.

Kambale River, South Central Africa, xxiv. 272.

Kambia, West Africa, xxx. 118.

Kamboja. See Cambodia.

-; origin of the name as applied to Indo-Chinese countries, xxvii. 95.

Kamboza-Taing, Name applied to certain States East of Burma, xxvii. 95.

Камснік River, Balkan, xxiv. 53, 55, 56, 58, 60, 74, 76, 77.

———— Mahalesi, Balkan, *ib*. 57, 75.

KAME River, Matebele, South Africa, xxvi. 100, 104, 108.

Kameli, Balkan, xxiv. 53.

Kamen (Kamer?), Native Name of Cambodia, xxx. 182.

KAMENIS Toquoih, Kaministoquoih,

KANE.

Valley and River, British North America, xxii. 176, 177; xxx. 269. Kamer ("The Snowless"), Tibetan

Peak, xxiii. 25.

Kamisheva, Sea of Azov, xxvii. 147, 148.

Kampoot (Cambodia), xxx. 177, 181.

Kana (Cana of Galilee), xxiv. 8.

Kanah, Brook of Joshua, ib. 10. Kananaski River, and Pass, Roeky Mountains, xxx. 290, 291, 296.

Kanara and its Lake, Dobrudsha, xxvi. 205.

Kanaur, Kanor, Kunawar, &c., Transhimalyan Province, xxiii. 2, 5, 8, 35,

Kandala, Central Africa, xxiv. 271.

KANDELLY Tank, Ceylon; Report on, by Capt. Sim, R.E., xxvii. 346; also 332, 333, 344, 346.

Kanchanjinga, Great Peak of the Eastern Himalya; proper form and

meaning of name, xxiii. 2. Kane, Dr. E. Kent; Report of Expedi-TION in search of Sir John Franklin, to Secretary, United States Navy, xxvi. 1—Destination, 1—Melville Bay; pass Sir T. Smith's Sound, 2 eache of life-boat and provisions; advance of the ice, 3—exploration ahead and return to winter quarters in Van Rensselaer Harbour, 4—expeditions lay out câches up to 79° 12′; winter arrangements; lowest temperature, 5—observations; tendency to spasm; preliminary expedition, its disaster, and that for its relief, 6 great sufferings; explorations continued, 7—great glacier, 8—Cape Independence, furthest point reached, 9—open sea; Parry Mountain furthest point seen, 10—attempt to communicate with English at Beechey Island, but failed, 11—preparations for second winter; diminished energies and resources; habits of the Esquimaux imitated; communication with Esquimaux; disablement of the party, 12—seurvy; virtue of routine; some improvement with spring; determination to abandon the ship and preparations for escape; enforced sacrifices, 13—gradual advance southwards, 14 - aid from Esquimaux; regular routine enforced among all difficulties, 15—providential supply of food, 16—reach Cape York; traverse Melville Bay along margin of land-ice; after much suffering, reach Upernavik; take passage for the Shet-

KANE.

lands in a Danish Brig, 17—but meet the relieving vessels at Disco; appen-

dix of official letters, 17, 18.

KANE, Dr. E. KENT. Notices of his Expedition, xxiv. p. eiv.; vol. xxv. pp. cxxii.; vol. xxvi. p. ecvii.; 30, 33— Founder's Medal assigned to, xxvi. pp. viii., clxvi., ccvii.; Obit. Notice of, xxvii. p. cxvii.

-; On the supposed discovery by, of the North Coast of GREENLAND, and of an open Polar Sea. By Dr. Rink, xxviii. 272.

Kanem, Central Africa, xxx. 121.

Kangaroo, very large, xxii. 244—Red, xxvi. 247, 273—in North-West Australia, xxviii. 149.

- Creek, Maranoa River, Cen-

tral Australia, xxii. 258.

– Point, North Australia, xxviii. 20.

Kangeo, Cambodia, xxx. 184.

Kangkau, ditto, ib. 183.

Kangri, Tibetan term (lit. ice-mountain), applied to glaciers and mountains of

perpetual snow, xxiii. 52, 53.

--, also the name of District of Tibet round Kailas, in which lie the two sacred lakes, *ib*. 13, 16, 24, 25, 27, 31, 39, 43, 44, 48, 49, 65, 67.

Kangroa, Aracan, xxiv. 95.

Kanji Tokho River, Tibet, xxiii. 37. Kanjut (or Ganjut) a country northwest of Tibet, xxiii. 5.

Kanlan Valley, Chusan, xxiii. 245. Kano in Central Africa—eity, xxi. 191, 192; its quarters and gates detailed, 193, 219; xxx. 124-126, 259—towns belonging to, xxi. 193; also see Routes.

Kanongo in Bunda, South Central Africa, xxiv. 272.

KANOR. See Kanaur. KANURI, or Bornu People, Central Africa, xxx. 120, 121.

Kanyeid Bursoak, an Iee-firth in Greenland, xxiii. 152.

Kanyenye, Ugogo, East Africa, xxix. 151, 152, 154.

Kanyeti Tribe, Upper Zambesi, xxiv. 295.

Kanyika Tribes, South Central Africa, xxvii. 351.

Kao, one of the Friendly Islands, xxii.

Kaoko, Damara Land, xxii. 146.

Kaole, Zanzibar Coast, xxviii. 220, 222; xxix. 14, 15, 26, 40, 45, 62, 66, 87, 439.

Kapliars, Tribe on Amur, xxviii. 398.

KARNABAT.

Kaptynskraal, Great Bushmanland, xxviii. 166.

Kapulchigdag, Mountain in Armenia, xxi. 3.

KARA River, Amur Land, xxviii. 377.

Kara-Ahmed, Balkan, xxiv. 76.

Karabagh Chain, Armenia, ххі. 3.

Karabulak, Fessa, South Persia, xxvii.

Karabunar, Rumilia, xxiv. 48.

KARACHAI River, near Kum, Persia, xxv. 6, 7.

Karaganga River, Ceylon, xxvii. 334.

Kara-Gooslu ("Black-eyed") Tribe,

Khuzistan, xxvii. 112.

KARAGWA, in northern part of East African Lake Region, xxix. 18, 27wet monsoon of, 171, 180, 277—wild coffee of, 183, 202, 205, 285—the plantain the staff of life, 219, 254 superstitious dances, 266—large trees and canoes, 271-274, 279—superior physique of the people, 280—position, 281 — extent, 282 — character of country, 283-285—cattle, 286—the people, the sultan, 287—and government, 290—Fetish hut, 342—pot₂ tery, 384—mats, 386—the plague in, 387.

KARAK Island, Persian Gulf, xxvii. 108, 114.

Kara-Kalpaks, Nomads of Khyva, xxiii.

Kara-Kızlı Khan, Rumilia, xxiv. 39.

Karalla, Balkan, xxiv. 56.

Karamanha, Balkan, xxiv. 52, 53.

Karangu Island, East Africa, xxviii. 200.

KARARIT, Arab Tribe in Al Jauf, xxiv. 142.

Kara-su River, Crimea, xxvii. 134.

— Lakes, &c., Dobrudsha. See Spratt, xxvi. 203 seqq.

Kara Tamak, Aral Sea, xxiii. 98.

Kardop, South-West Africa, xxii. 137.

Karen Raee in Burma, xxvii. 63—languages and traditions, 82—Christianity among them, 83—in the Shan States, 92; xxx. p. clxxii.

Karens, Red, Burma, xxvii. 64, 78, 89,

Kariak, Ice-firth in Greenland, xxiii. 152.

KARIMA River, Central Africa, xxiv. 272, 273.

KARISHTIRAN Déré (River Contadesdus), Rumilia, xxiv. 45.

Karmunsa River, Cambodia, xxx. 183. KARNABAT, Balkan, xxiv. 57.

KARNALI.

Karnali River, a name of the Gogra in Tibet, xxiii. 9, 35.

Karreberg Range, south of Bushmanland, xxviii. 164.

KARTHALIMAN country, Tiflis, and its climate, xxi. 8.

KARU Melk Kolk, south of Bushmanland, xxviii. 164.

KARUN River, Khuzistan, xxvii. 109, 110—its identity with the Pasitigris,

&c.,* 120 seqq.; 189, 190. Kasai River, South Central Africa, xxvii. 351. See Casai.

Kasar Aswad, Tower on Dead Sea, xxvi. 62.

Ka Savu, Fiji, xxvii. 236. Kasbegk, Caucasus, xxi. 23. Kasbein, Bulgaria, xxiv. 79.

Kasenge Island in Lake Tanganyika, xxix. 17, 26, 214, 246, 253, 255, 257, 351.

Kashgai Tribe, South Persia, xxvii. 167, 170.

Kashgar, xxiii. 6—Tibetan name of, ib. 2.

Kashmir, Tibetan name, xxiii. 2; xxx. p. clxx.

Kasia Hills, east of Bengal; Rainfall of, xxii. p. lxxxix.; vol. xxvii. 64.

Kasr Altuweir, near Al Jauf, North Arabia, xxiv. 152.

—- Alsuleimy, North Central Arabia, ib. 181, 205, 206.

-- 'Asharawa, North Central Arabia, ib. 205.

—-, meaning of, in Arabic names, ib. See also Kasar.

Kastanizza, Laconia, xxvii. 46.

KASTRO, or Crow's Nest, town in Milo, xxii. 209, 220.

KASYE River, South Central Africa. See Casai, Kasai.

Kaszabi Kandal, alleged great River of South Central Africa (Cazembe), xxiv. 272, 274. See also Cassabe.

KAT River, Orange River, xxviii. 157.

KATANDA, African Lake Region, xxix.

KATANGA, or Katata, South Central Africa, ib. 255.

KATEMA, Katema's Town and River, South Central Africa, xxv. 223, 224, 236; xxvii. 351; xxx. 151.

KATERGO Rocks, Milo, xxii. 204.

Katha, Burma, xxvii. 70.

Katonga River, Lake Nyanza, xxix. 290, 296.

* Here spelt Kuran.

KEFR.

Katongo, on Zambesi, xxiv. 294, 298, 302, 305.

Katsena, Katshna, Haussa, xxiv. 285; xxx. 118.

Katukaleawe Tank, Ceylon, xxvii. 342.

KATURKESHI, South Sudan, xxiv. 285.

Kaukab, Galilee, xxiv. 8.

Kaukaba, Cœle Syria, xxiv. 24.

Kava making, Tonga, xxii. 105-107, 111, 115.

Kavogo or Kabogo, Lake Tanganyika, xxix. 244.

KAVVIRE, Central Africa, ib. 256.

Kawele or Ujiji, on Lake Tanganyika, xxix. 208, 214-216, 221, 224, 227 229, 246, 247, 254, 256, 259 (for *Kiwere*? q. v.), xxix. 397. KAYAN River, Borneo, xxiii. 71, 76.

Kazan, Bulgaria, xxiv. 59—capture of, in 1829, ib. 63, 73, 74. Kazantip Bay and Cape, Sea of Azov,

xxvii. 145, 147.

Kazeh or Mara, Arab settlement in Unyamwezi, and radiating point of caravan routes, xxix. 169, 179—described, 180, 181, 185, 186, 208, 260, 264-266, 270, 281-283, 285, 287, 297, 299, 301—route from, to Lake Nyanza, 453.

KAZEMBE, XXIX. 255. See Cazembe. Kazerum, Fars, xxvii. 116—its popula-

tion and climate, 184. Kazin, South Persia, xxvii. 166. Kean Point, Victoria Land, xxii. 86.

Keana, near Chadda River, xxv. 114. Keats, Port, North Australia, xxviii.

Kebabo, Central Africa, xxx. 121.

Kebbekah, cotton strips used in barter at Agadez, Sahra, xxi. 147.

Kebbi, Negroland, xxx. 124, 126. Kесноw, Yangtsekiang, xxx. 88.

Kedes (Kedesh), Galilee, xxiv. 23.

Kedron, Brook, at Dead Sea, xxvi.

Keerewanaheena, Ella, Ceylon, xxvii.

Keffeh or Great Salt Field in Kerman described, xxv. 66.

Kefir (Chefira), Palestine, xxiv. 11. Kefr Abil, Transjordan, xxiv. 20.

——- Birim, North Palestine, ib. 5.

—— Falus, near Sidon, ib. 2.

—— Hauwar, below Hermon, xxvi. 45. —— Kud (*Capparcotia*), Galilee, xxiv. 9.

—— Kuk, Antilibanus, ib. 27.

—— Malik, Palestine, ib. 18. ----- Menda, Galilee, ib. 8.

KEFR.

Kefr Saba (Antipatris), xxiv. 10. Kehnu, Kerman, Persia, xxv. 52.

Keikouka Tribe of Hottentots, xxii.

Keisy Peak, Central Arabia, xxiv. 175. KEITH Point, North Australia, xxviii.

Kelefina River (Enus) Laconia, xxvii. 34, 35, 45.

Kel-emellel, Tribe of Salıra, xxi. 135. Kele-musu, Canal at Fiji, xxvii. 235.

Kelgeris, Tuwarik Tribe, Sahra, xxi. 139, 149-151, 166, 168.

Kellett, Capt., his ship Resolute drifts 960 miles in ice, xxvi. 34.

—; his survey of the Pailon of Pedro, Ecuador, xxx. 70.

Kelley Inlet, Darien, xxvi. 179, 180.

Ship Canal through the Valley ATRATO to the PACIFIC, of the by direction of, xxvi. 174. Kelley resolves on a survey this route; Trautwine's exploration of rivers Quito and Baudo; of the Pepe and S. Juan, 175—renewal of investigations by Porter and Lane. The Atrato and its mouths, 176—the Raspadura and alleged canal; height of summit-level above the two rivers, 177—results unfavourable. The river Truando examined; the coast of the Pacifie, 178—the Bay of Yurador and Paracuchichi; Kelley's Inlet, 179 passage of the summit-level to the Truando, 180—confluence of the Truando the best point to effect a passage to the Pacific, 181—observations on the tides. General results of the explorations at Mr. Kelley's expense, 182.

Kena, North Central Arabia, xxiv. 166,

174, 206.

Kendall River, Arctic America, xxii. 82, 95, 96.

Kendat, Burma, xxvii. 60, 72, 86. Kenia, Mount, Snowy Peak in East Africa, discovered by Krapf, xxiii. 118; xxvi. 116; xxviii. 194; xxx. 130.

Kennedy, E. B. Extracts from his Journal of expedition into Central Australia to determine the course of the RIVER BARCOO (or Victoria of Mitchell), xxii. 228.

Letter from Mr. Clarke; death of the author; character; loss of barometer; remarks on Aneroid, &c.,

229.

Journal. Reach the Balonne River,

KERULEN.

233—the Victoria, 242—travel down it; bury the carts, 244—obliged to turn, 250—quit the Victoria, 257 turn down the Warrego, 258—Reach the Culgoa, 263—the Barwan, and Stations, 268—Sydney, 271—Geological specimens from the Victoria, *ib*.— Meteorological Journal, 272-280.

Kennedy's unfortunate expedition to Torres Straits referred to, xxi. 13, 14.

Kennedy, W., Commanding Lady Franklin's vessel Prince Albert; his Report on the voyage, xxiii. 122—Object, to examine Prince Regent's Inlet and parts adjoining; reasons why advisable, ib.; Prince Albert fitted out at Lady Franklin's expense, 123—projected course; find Barrow Straits blocked up, and Leopold Harbour; Mr. Kennedy lands with four men there, 124—cannot get off, and the ship is driven away; subsist on Sir James Ross's stores left there; and after six weeks are joined by Lieut. Bellot who reports the ship safe in Batty Bay; rejoin; explore Fury Beach, 125—and find Sir John Ross's stores of 1833 untouched, 126—start to explore South and West, discover Bellot Straits; cross Victoria Straits and explore Prince of Wales Land, and Pecl Sound up to Cape Walker, 128—return by stores at Leopold Harbour to ship, after 96 days' travelling, ib.—result, 129.

Kenpoo River, Tibet, xxvii. 55.

Kent Island, Baffin's Bay, xxiii. 142. Kenyon, John; Obit. Notice, xxvii. p. cxii.

Keppel, Hon. Capt. H., Commanding Menander in the South Sea, xxii.

Kerak (Tarichæa), Tiberias, xxviii. 261.

-, Arab Tribe, xxvi. 62. Kerazieh, Galilee, xxiv. 23.

Kerioth of Scripture, xxviii. 250.

Kerkiba, Fezzan, xxiv. 279.

Kerkh-Misan, or *Charax*, on Lower Euphrates, xxvii. 187 seqq.

Kerkhah River, Khuzistan, xxvii. 120, 122, 124, 125, 189.

Kerman, Persia, xxv. 29.

— to Khubbes and Shiraz, Route from, *ibid*.

Kerrej River, near Tehran, xxv. 2.

Kerry Coast Surveys. See Coast Surveys, Ireland.

Kertch Peninsula, xxvii. 141, 145. Kerulen River, Mongolia, xxviii. 378.

KEVVIR.

Kevvir or Salt Desert of Kum, Persia, xxv. 4.

Ketow Bluff, Yangtsekiang, xxx. 89. Ketsyr, Village of Golds, Amur, xxviii.

Ketta Gumbez, East of Shiraz, xxvii. 152.

Keve River, Central Africa, xxiv. 272.

Kewchuen, China, xxviii. 289. Kewhsien, Yangtsekiang, xxx. 81, 82, 96.

KEWHWASHAN Mountain, Yangtsekiang, *ib.* 83.

KEWKIANG, ditto, xxviii. 291; xxx. 88, 97, 98.

Kewlungkiang, or Mekong River, xxx. 182. See Mekong.

Khabap, Fountain or Cataract, applied to great River-sources in Tibet, xxiii.

Khabra, Arabia, xxiv. 172.

KHABRE Mountains, Kerman, Persia, xxv. 59.

Kнанама, African Lake Region, xxix. 267, 268.

Кнајен Ahmed, Shiraz, xxv. 72.

Khalejistan or Savé District, Persia,

KHALID, BENI-, Arab Tribe, and hypothesis as to Chaldean descent, xxx. 202, 203.

Khalij Tribe, Fars, xxvii. 170.

Kham or Khamyul, native name of East Tibet, xxiii. 2, 3.

Khambi River, East Africa, xxix. 107. Khampa of Tibet. See Kyampo, xxiii. 6.

KHAM-SOK (Tibet - Mongol), Tibetan name of region between East Tibet

and Mongolia, xxiii. 2, 3. Khamti, People of Shan Race in Northern Burma, xxvii. 66.

Khan Al-Zebib, a castle in North Arabia, xxiv. 128.

--- Cull, South Palestine, xxvi. 58. Jubb-Yusuf, Palestine, xxiv. 23.
Khatrude, Palestine, xxvi. 70.

—— el Lachme, Palestine, ib. 57.

— of Meithelun, Antilibanus, xxiv. 28.

- Minyeh, Galilee, ib. 22. - Zenian, Fars, xxvii. 117.

Khaneh Punj, Yezd, Persia, xxv. 23.

- Amré, Kerman, Persia, ib. 66.

Khapalu, Balti, xxiii. 14, 16, 27, 34, 37, 43, 45, 54, 57.

Kharnak, or "Black Castle" of Zangskar, Ladak, xxiii. 14, 22, 27, 29, 42.

KHURUKHA.

Khartaksho, of Balti, xxiii. 14, 16, 27,

Khas, Khasa, ancient name of Kumaon country and people, xxi. 83.

Khasiyas of Kumaon, xxi. 81, 83.

KHASHABAT, near Euphrates mouth, xxvii. 189.

Khassya Hills. See Kasia.

Khatta (Al-Khatta), Plain of, Shammar country in Central Arabia, xxiv. 171.

Khatue, South Africa, xxviii. 178.

Khaybar in Central Arabia, inaccessible to Burton, xxiv. 208.

Kheibar, xxiv. 190, 197, same as preceding.

Kheirabad, Kerman, xxv. 67.

KHEIROMEH, Shiraz, ib. 75. KHEZAIL Arabs, xxvi. 141, 143.

KHIANGS. See Khyens. KHIDK, Yezd, xxv. 21.

Кнів, Shiraz, xxv. 73. Кніввек el Beida, Ruin in Desert East of Bashan, xxviii. 237.

- el Haiyah, Palestine, xxiv. 18. KHIYAM, near the Litany, Syria, xxiv.

Kно River, Siam, xxx. 183.

Khoamsa, Mahomedan sect and tribe in Jibal of Tripoli, xxii. 134.

Khoda-abad, Kerman, xxv. 25.

Khodzko, Col., ascent of Ararat by, xxi. p. lxxix.

Кнокно, Lake Region of Africa, xxiх. 152-155.

Khokoro, Lake Region of Africa, ib. 180, 195, 256, 257, 298, 300, 305 ivory of, 442.

KHOMBORA Mountain, East xxviii. 209.

Khonde District, Lake Region of East Africa, xxix. 306.

Khoon tribe, Aracan, xxiv. 102.

Khorasan, Russian expedition to, xxix. p. clxvii.; vol. xxx. p. clxxxi.

Khorayok, Siam, xxvi. 76.

Khorsum or Nari-Khorsum, a great sub-division of Nari or Western Tibet, xxiii. 4, 6-11—means "The Three Tracts," 12, 13, 15, 16, 21, 24, 25, 27, 34, 35, 40, 65.

Khotan, Khoten, xxi. 58—ancient road from Tibet to, xxiii. 6, 7.

Khristophoroff, member of Aral Survey, xxiii. 96.

Khubbes, Central Persia, xxv. 33 seqq. Khunoong Tribe, North of Burma, xxvii. 66.

Книгикна Canal, Babylonia, xxvi. 144.

KHUTU.

KHUTU District on Lake Route, East Africa, xxviii. 224; xxix. 28, 40, 59 —character of, 72, 74—people of, 80, 81, 82, 86, 88, 96, 97, 99, 101, 103, 124—ulcers of, 142, 180—the plantain, 219, 300—eattle will not live, 390, 400—tobacco, 405, 417.

KHYENS, Khyengs, Khiangs, a hill people of Aracan, xxiv. 94—wild tribes of ditto, 100, 109; xxvii. 63, 65,

Khyirong, "Dog-Valley," a District of

Nari in Tibet, xxiii. 4, 16. Khyoung-Tha, "Children Creeks," a people of Aracan, xxiv. 104, 105, 108.

Kiakhta, xxiv. 306.

Kialing River, Tributary of Yangtsekiang, xxviii. 289.

Kiang Hai, Old Shan State, xxvii. 59,

- Hung, Shan State, ib. 55, 58, 59, 90, 99, 100, 104.

- Khen, Shan State, ib. 90, 102,

- Mai, Chiang-Mai, or Zimmé, Shan State, xxvi. 72; xxvii. 55, 59, 62, 101, 104-107.

- Tsen, Old Shan State, xxvii. 59,

90, 101, 107.

- Tung, Chiang Toong, Shan State, xxvi. 72; xxvii. 59, 90, 91, 93, 100, 101, 103, 106, 107.

KIANG-NAN Provinces, China, xxviii.

KIANG-SI or KIANG-SE, Province of China, *ib*. 291.

Kiang-Su, Province of China, ib.

KIBORUE Forests, South Central Africa, xxiv. 272.

- Kingdom, South Central Africa, ib. 273-275. Kibuga, Uganda, Nyanza Region, xxix.

280, 289, 290, 296.

KICKING Horse River, Rocky Mountains, xxx. 299.

Kichyoma-chyoma or "Little Irons," a disease of Eastern Africa, xxix. 388.

Kidnapping on Burmese Borders, xxvii. 94.

Kidunda, East Africa, xxviii. 223.

Kiepert's Maps; of European Turkey and Asia Minor, xxiv. p. xeiii.; of Palestine, xxiv. 21.

Kifukoro, Ugogo, xxix. 150, 151. Kigandu, Unyamwezi, xxix. 181.

Kigari, Lake Tanganyika, xxix. 247, 248.

Kigwa or M'Kigwa, Unyamwezi, xxix. 171, 178, 179.

KING'S.

Kiit, Manchuria, xxviii. 407. Kikoboga, East Africa, xxix. 125.

Kikui, East Africa, xxviii. 194.

Kikuyu Mountains, East Africa, xxx. 130, 131.

KILIA, and so named Branch of Danube, xxx. 163, 164, 166, 167.

KILIMANGAO. See next.

KILIMANJARO, snow-capped Mountain of East Africa; discovered by Rebmann, xxiii. 118—and Kenia, their snows, xxv. p. xev.; xxvi. 117, 130; xxviii. 194, 200; xxix. 3, 12, 23, 142, 234, 274, 276, 284.

KILIMANJARO AND THE WHITE NILE. By

James Macqueen, xxx. 128.

Kilissian, Firuzabad, South Persia, xxvii. 178.

Kilkilieh, Palestine, xxiv. 10. KILUEA Crater, Hawaii, xxv. 192.

Kilwa, Kirwa, Quiloa, East Coast of Africa, xxix. 1, 2, 12, 18, 19, 31—deadly fever, 39, 40, 42, 44, 46, 48-51, 58, 79, 127, 128, 160, 167, 177, 406—copal from, 439, 440—ivory from, 443.

Kimblenge, in Bihé, South Central

Africa, xxiv. 272.

Kimbundu, a people of Bihé, South Central Africa, *ibid*.

Kimolo Island, near Milo, xxii. 201, 204, 205—Fuller's earth of. 224.

Kimwere, Sultan of Fuga, Burton and Speke's visit to, xxviii. 202. See also Kmeri.

Kinawani, Lake Region of East Africa, xxix. 209.

KINDUMBO, Candumbo, Mountains, South Central Africa, xxiv. 271, 274.

King, Capt., cited on Japan current, xxiii. 230.

-, Rear-Adm., P. P.; Obit. Notice,

xxvi. p. elxxviii.

-, D. O. Travels in Stam and Cam-BODIA, XXX. 177—the Petrio Canal; Bangpakong River, 178—Paehim; general use of elephants; their cost; Mattabong, 179—Talé Sab or Great Cambodian Lake; the Nokon Temple; Oodong River, 180; Oodong City, the present capital; Roman Catholic Mission; Pelomping; antimony; botany, 181 — wild animals; leeches; minerals, 182.

KING WILLIAM Land, Arctic Sca, XXV. 202.

King's College Lecturer on Geography, xxiv. p. xeii.
—— Table Hill, West Australia,

xxii. 66, 72.

KINGANI.

Kingani River, Zanzibar Coast, xxviii. 220-223; xxix. 27, 42, 43, 58, 59, 65, 66, 69–71, 74, 83, 99, 105, 120, 205, 308, 401.

KINGGAN, Kinghan, Mountains, Manchuria, xxviii. 385, 388, 418. Hinggan.

Kinibalu, highest known mountain in Borneo; also alleged lake of same name, xxiii. 70.

Kinkiang, Tributary of Yangtsekiang, through Poyang Lake, xxviii. 291.

KINNEIR, Sir John Macdonald, xxvii. 108.

KINSHA-KIANG, name of Upper Yangtsekiang, xxviii. 288.

Kinshan or Golden Island, Yangtse-kiang, xxviii. 292; xxx. 78.

KINTANG Island, Mouth of Yangtsekiang, xxiii. 244.

KINTECHIN, seat of porcelain manufacture in Kiangsi, xxviii. 292.

Kinyanguku, Lake Route, East Africa, xxix. 129.

KIPEREPETA Lake Route, East Africa, ib. 127.

Kipumbui, Zanzibar Coast, ib. 45.

KIR and Karzin, Plain of, South Persia, xxvii. 169.

Ella, Ceylon, xxvii. KIRANDEGALLE 338.

KIRANGA-RANGA, East Africa, xxix. 66,

KIRDMEEN Valley, Tripoli, xxii. 133. Kirghiz, on Sea of Aral, xxiii. 94, 95.

Kirgala River, East Siberia, xxviii. 404.

KIRINGAWANA, Or Southern through Usagara, East African Lake Route, xxix. 106, 107, 124, 127, 134, 145, 300—Chief so styled, 125, 126, 149.

Kirioya, Ceylon, xxvii. 343.

KIRINGE, Lake Route, East Africa, xxix. 124.

Kirira, Unyamwezi, ib. 187, 203, 297. Island, Lake Tanganyika, ib. 244-246.

Kiris, Balti, Tibet, xxiii. 14-16, 27, 57.

Kirjath Jearim, xxiv. 12.

Kirk, Dr., on Red Sea Volcanoes, cited, xxiv. 237 - his drawings of Shores of Red Sea, ib. xcv.

Kirk-Kelesia, Rumilia, xxiv. 45.

Kirkpatrick quoted, xxi. 65.

Kirna River, East Africa, xxviii. 211. Kiruru, Lake Route, East Africa, xxviii. 223; xxix 73, 74.

KIRURUMO, Lake Route, East Africa, xxix. 157, 158.

KOKOTONI.

KISANGA Basin, Lake Route, East Africa, xxix. 124–128.

Kishon River, xxiv. 9.

Kısı Lake, Amur, xxviii. 388.

Kislema, Kilimanjaro, xxx. 129.

Kissamo, Crete, xxiv. 238.

KISULODINI, Mission Station of Mr. Rebmann in East Africa, xxviii. 192.

Kiszagin, South Central Africa, xxiv. 271.

KITAD, Manchuria, xxviii. 409.

KITANGURE, Kitangule River, in Karagwa, Nyanza Region, xxix. 208, 253, 273, 283, 289.

Kitui, East Africa, xxx. 130. Kitunda, Lake Tanganyika, xxix. 248, 249.

Kivira River, Nyanza, xxix. 296, 297. KIWERE or Kiwele, Lake Region of East Africa, ib. 298, 300, 304.

Kızı, Amur, xxviii. 437.

Kızıljı-Kelesi, Rumilia, xxiv. 47.

Kiztepedefile, Balkan, ib. 60.

Kizunga, near Pangani River, East Africa, xxviii. 218.

Klaproth's Map of the Irawadi River, xxvii. 58.

Klein Eenriet, South Africa, xxviii. 173.

KLIMATI Vourno, Cliffs at Milo, xxii. 211.

Kluichefski, Russo-Mongol Frontier, xxviii. 416.

Kluit-jes-Kraal, Bushmanland, xxviii. 166.

KMERI, Krapf's visit to King, in Usumbara, xxiii. 106. See Kimwere.

Knakion River, Sparta, xxvii. 12.

Knight's 'Imperial Cyclopædia,' xxi. p. lxix.

Knobkerry or African Mace, xxix. 197, 286, 379.

Koanas, a people of great stature in Central Africa, xxi. 198.

Koanza River, South Central Africa, xxiv. 272, 274.

Kobis, Lake Ngami, xxv. 83.

Koch's Map of Caucasus, xxi. p. lxxii. Kohala Volcano, Hawaii, xxv. 191.

Коноре, Pangani River, East Africa, xxviii. 209-211, 217.

Kojonup Post, West Australia, xxii. 53. Kokand, Trade at, xxiv. 312.

Kokanda, on the Kwora River, xxx. 232.

Kokema River, South Central Africa, xxiv. 272, 274.

Kokla, Laconia, xxvii. 45.

Kokolai Lake, Ceylon, xxvii. 332.

Kokotoni, Zanzibar Island, xxviii. 188.

KOLA.

Kola Nuts, Niger Country, xxx. 215 seqq.

KOLADYNE RIVER, ARACAN, Extract of Journal up, by CAPT. S. R. TICKELL, B.N.I., XXIV. 86.

, xxvii. 74.

Kolbe, Missionary, has described the Damara Country, xxi. p. lxxxvii.

Kolobeng, South Africa, xxi. 20.

Kolyma District, Siberia, vast animal life, xxii. 120, 121.

Komadugu River, Birni, Negroland, xxx. 128.

Konar Takht, Fars, xxvii. 115.

Konduchi, Zanzibar Coast, xxix. 18, 45, 70, 390.

Kondrowawe, Ceylon, xxvii. 329, 338, 340, 343-345.

Kong, Negroland, xxx. 118.

Kongatoo, Oga River, Ceylon, xxvii. 338.

Kongbo, a Province of Central Tibet, xxiii. 3.

Konkyu Lake, Tibet, ib. 36, 48.

Konskoi Ridge, South of Okotsk, xxviii. 403.

Konunna River, South of Okotsk, ib. Kookees, Tribes East of Bengal, xxvii.

Kooloonay River, Oregon, xxii. 192. Koom, Syrian Desert, Ruins and Fountain at, xxx. 209.

Kombekine Salt Lake, West Australia, xxvi. 236.

Kopri Koi, Balkan, xxiv. 53, 58, 76,

Kordofan, xxx. 123.

Korgo Island, Persian Gulf, xxvii. 114. Korio, market-place in Darfur, xxiii. 120.

Korkeshah, Balkan, xxiv. 58.

Korner (Kornaa), Euphrates, xxx. 199. Korot (Fiji), xxvii. 260.,

Korome, Timbuktu, xxiv. 284.

Kororofa, Niger, xxv. 115; xxx. 120. Kosambнi, East Burma, xxvii. 96.

Koshanpri, or "Nine Shan States," xxvii. 88, 98.

Koskiemo, Vancouver Island, xxvii. 269, 288.

Koss Aral, Island at mouth of Siron south of Aral, xxiii. 95.

Kostentino. See Kustenje, xxvi. 204. Котоко, people of Bornu, xxx. 121.

Kotroni Hill, Marathon, xxvii. 31.

Kotta-pitiya Oya, Ceylon, xxvii. 339.

Kotul Malu, Fars, xxvii. 115. ——— Kumari, Fars, ib.

——— Dokhtur, Fars, *ib.* 117. — Zun, Fars, ib.

KUDU.

Kotzebue cited on Pacific Currents, xxiii. 225, 228.

- Sound; xxiv. 240 — Reports from, about Franklin, xxvi. 31.

Koung-mhu-dau, Pagoda near Ava, xxvii. 108.

Kountoungmyo, Burma, xxvii. 69.

Kourti, Laconia, xxvii. 45.

Kowdella Tank, Ceylon, xxvii. 331, 332, 342, 344.

Kozluk on Black Sea, below Balkan, xxiv. 52.

KRANTZ Kop, Great Bushmanland, xxviii. 164.

Krapf and Rebmann, Missionaries; their Journeys reviewed by Col. Sykes, xxiii. 105—Krapf's Journeys 106—settlement near Mombas, 116 his notices of Pagan Tribes; of the people of Unyamwczi, 117 – visits Usumbara, 118. See Rebmann.

-, Dr.; cited, xxvi. 116—his explorations, &c., xxix. 2, 3—accused of political interferences, 13—his interpretations, 167, 276; xxx. 130. 133. See Mombas Mission.

Krevata, Laconia, xxvii. 34, 36, 50. Krokodyl River, Transvaal, xxx. 250. Krom Vley, Border of Great Bush-

manland, xxviii. 163. Krub eminences near Ghadamis, xxii.

136.

Krus or Krumen of West Africa, xxx. 118.

Kruse's Archæological Maps criticized, xxvii. 6, 21, 32.

Krusenstern, cited on Pacific currents, xxxiii. 229, 233.

Kubab, Palestine, xxiv. 11.

Kubabees, Hottentots, xxii. 153, 154,

Kubale, or Catombela River, South Central Africa, xxiv. 271, 273.

Kuban River, Sea of Azov, xxvii. 148. Kubare (Gabara), Galilee, xxiv. 7.

Kubatiyeh, Palestine, xxiv. 9.

Kubauda, a large place on a great river to the south of Wadai in Central Africa, xxiii. 121.

Kuberaroa, Aracan, xxiv. 114. Kuberan, Palestine, xxiv. 18. Kubiscoe Range, Great Bushmanland,

xxviii. 166.

Kubo Valley, Burma, xxvii. 72.

Kubuhai, Russo - Mongol Frontier, xxviii. 413.

Kubrikah, Ruins of Temple at, Syria, xxiv. 4.

Kudan, Nupé, Niger, xxx. 229.

Kudu Antilope, East Africa, xxix. 67.

KUDULI.

Kuduli River, Amur, xxviii. 428.

Kudunu, Nain, Persia, xxv. 14. Kuenluen, Kouenlun Mountains, xxi. 58; xxviii. p. clxxxv.

Kufa, Babylonia, xxvi. 140.

Kuffara, Central Africa, xxx. 121.

Kufr, old city in Bashan, xxviii. 246.

Kug Aral, Island in Aral Sea, xxiii.

Kuh Benan, Yezd, Persia, xxv. 25.

Kuh-i-Nemek ("Hill of Salt"), Zerend, Persia, ib. 4, 8.

Kuh-Payen, Kerman, Zerend, Persia,

Kuhonga. See Honga.

Kuisip River, Walfisch Bay, xxii. 144.

Kuiva River, South Central Africa, xxiv. 272, 273.

Kuka, Bornu, xxi. 219, 220.

Kukumbi River, South Central Africa, xxvi. 81.

Kulandy Peninsula, Aral Sea, xxiii.

Kul'at (Kala'at?) Bustra, and Temples, near Hasbeiya, Syria, xxiv. 27.

- Esk-Shakif (or Belfort), near Lebanon, ib. 3, 4, 25.

- Es-Subeibeh (Baneas), ib. 26.

— Ibn Ma'an, Galilee, ib. 22.

Kulbar or Kurbale, Shiraz, xxv. 75.

Kulefcha, Bulgaria, xxiv. 78.

Kuleib Peak, in Bashan, xxvi. 49, 51.

Kulfela, Negroland, xxx. 122.

Kulga, Amur, xxviii. 438. Kulme, near Tehran, xxv. 2.

Kulussataefski Station, Russo-Mongol Frontier, xxviii. 415.

Kum, Persia, xxv. 8, 10.

-, Kerman, Persia, ib. 62.

Kumaon and Garhwal, On the Physical Geography of the Provinces of, in the HIMALYA Mountains, and of the adjoining Parts of Tibet. By CAPT. R. STRACHEY, Bengal Engineers, xxi. 57.

Kumarooa, Balkan, xxiv. 77.

Kumba, Pangani River, East Africa,

xxviii. 202.

Kumdan Valley and its Glaciers, Balti, xxiii. 24, 25, 27, 29, 34, 38, 40, 42, 45, 53, 55, 57, 58.

Kumeн, Galilee, xxiv. 22.

Kumooi Tribe, in Aracan, xxiv. 96, 106, 109, 111—festival of, 111.

Kumar Keshi, Kazerun, Persia, xxvii.

Kunawat (Chanata, Kenath) in Bashan, xxvi. 50; xxviii. 245, 258.

Kuneran, Kerman, Persia, xxv. 33.

Kur River. See Cyrus.

KWORA.

Kuran River, xxvii. 120 seqq., but see

Kureim, old city in Moab, xxviii. 252.

Kureis, North Arabia, xxiv. 118, 119. Kureiyeh (*Kerioth*), Moab, xxvi. 51; xxviii. 253, 257.

Kuriwan Hill, Otago, xxviii. 327.

Kurn-es-Surtabeh, Palestine, xxiv. 18,

Kurrikoop, Walfisch Bay, xxii. 152.

Kuruman, South Africa, xxi. 20; xxviii.

Kuryet - el - 'Enab (Kirjath Jearim), xxiv. 12.

- Jit (Gitta), Palestine, ib. 10.

Kush Djitmess, Island in Aral Sea, **x**xiii. 98.

Kushkh, Jehrum, South Persia, xxvii.

Kusr (Kasr?) -el-Malih, Castle near Jordan, xxiv. 19.

Kustenje and the Danube, Route between. See Spratt, xxvi. 203.

---- to Hirsova, *ib.* 205.

Kustul, Antilibanus, xxiv. 12; xxvi. 47.

Kusyun, Ruins at, Galilee, xxiv. 23.

Kutais, Black Sea, xxi. 5, 11, 12.

Kutalu River, South Central Africa, xxiv. 272.

KUTANIE River, Pass, and Indians, Rocky Mountains, xxx. 282, 290, 291, 295, 296, 298, 299, 314.

Kuti River and State, Borneo, xxiii. 71, 79, 81.

Kutjianas hongue, numerous springs at, Damara Land, xxii. 149.

Kutru, Kerman, xxv. 69.

Kuvan Darya, a Branch of the Syr at the Aral Sea, now dry, xxiii. 98,

Kuweh, Cœle Syria, xxiv. 27.

Kuyip River, Damara Land, xxii. 152, qu. Kuisip? q. v.

Kwachow, Yangtsekiang, xxviii. 292; xxx. 78.

Kwale River, Unyamwezi, xxix. 178.

Kwanlung Mountains, xxviii. 293. See Kuentun.

Kwangsi Province, China, xxviii. 295.

Kweilinfu, China, ib. 296.

Kwichpak River, Kweipat, or Yueon, Russian America, xxv. 196.

Kwihanga, Unyamwezi, xxix. 188.

Kwora River. See May, xxx. 212 seqq.

———, Tributaries to, xxi. 197.
—— and Chadda Rivers. Brief Summary of a Trip to, in 1854. By

KYAMPO.

WM. BALFOUR BAIKIE, M.D., XXV.

Kyampo or Khampa, Nomad Robbers of Tibet, called by themselves Rundur, xxiii. 6.

Kyang, the Wild Ass of Tibet, xxi. 79.

Kyat-pen, Ruby Mines, Burma, xxvii. 70.

Kyendwen River, Burma, xxvii. 55, 56, 60, 65, 67, 68, 71, 73.

Kyouk Taloung, Burma, xxvii. 73.

—— Tsé, Burma, *ib.* 78.

- Tunkha ("Stone Gate"), a Remarkable River-passage in Aracan, xxiv. 108.

KYOUK-DWENS, or defiles of the Irawadi, xxvii. 68.

Kyouk-myoung, Burma, ib. 57.

Kyouk-Phyu ("White Rock"), Aracan, xxiv. 86, 88.

Kyunam, Tibetan name of Kumaon, xxiii. 2.

La, in Tibetan, a "Mountain Pass," xxiii.

La Chimba, Atacama, xxi. 126.

La Cueva farm, East of Peruvian Andes, xxv. 152.

LA GIROTTA Lake, Upper Savoy, xxv. 190.

LA GITE, Valley, Upper Savoy, ib. 187, 189.

La Libertad, San Salvador, xxviii. 349

La Luz, Mexico, xxx. 47, 50, 51.

LA NORIA, North-West Mexico, ib. 13.

La Paz, a Department of San Salvador, xxviii. 353 seqq.

La Platana, North-West Mexico, xxx.

LA PLATA, River, Coast Surveys of, xxvi. p. cci.; vol. xxvii. p. cxxvii.; vol. xxviii. p. clii. — Exploration of, by U. S. Officers, xxiv. p. ci.; vol. xxvii. p. clxxxvi.; vol. xxix. p. ccix.

LA REVERSA, a mouth of Atrato River, Darien, xxiii. 192.

LA SAUCE, Pass of, Upper Savoy, xxv.

La Tirana, Pica, South Peru, xxi. 113. La Tola, Ecuador, xxx. 69.

La Union Bay, Central America, xxviii. 349 seqq. La Vega, San Domingo, xxiii. 273.

Labourg, Laphun, a Shan State, xxvi. 74; xxvii. 55, 59, 104.

LAKES.

Laboshi, in Nupe, Niger, xxx. 229.

LABOUCHERE, Rt. Hon. H., acknowledges medal for Mr. Gregory, xxvii. p. lxxxix.

Labuan, Coal of, xxiii. 72.

Lacerda's Explorations in Africa, from Mozambique to Cazembe, xxvi. 111, 113, 127, 130; xxvii. 373.

Lack Tribe, Persia, xxvii. 116. LACKERED WARE, Burma, ib. 76.

LACONIA, Ancient Geography of. Jochmus, xxvii. 34 seqq.

LACUSTRINE Habitations, Remains of, in Switzerland, xxv. p. cvii.—Indications of in Burma? xxvii. 96.

LADAK, Province of Tibet (now under Jamu), xxi. 58; xxiii. 4, 6, 8—details, 13, 16 — vertical cliffs of primary alluvium, 18 — remarkable conglomerates, 20-22 — height of mountains, 24—of passes, 25, 26—open Indus Valley, 28—contracted gorges, 29—slopes of the valley, 30—mean height, 34-40—Indus in Ladak, 41, 42—its fall, 44-46, 52—earthquakes, 58—climate and meteorology, 58-65.

Ladi, Kwora River, xxx. 224, 228. Ladislaus Magyar (also called Amerigo)Hungarian Traveller in South Central Africa. See Cooley, xxiv. 271; xxvi. 111, 123-125, 127, 128; xxviii. p. clxviii.; xxix. 25.

Lady Richardson Bay, Arctic Sea, xxii. 78.

Laggalle Mountains, Ceylon, xxvii. 336.

Lagong or Lakhon, Shan State, xxvi. 74; xxvii. 59, 104.

Lagunita Lake, San Salvador, xxviii. 353.

- Volcano, San Salvador, ib. 357.

Laila, Balkan, xxiv. 72. Laing, Major, xxii. 131.

Laird, Macgregor, his steamers for the Niger, xxiii. p. cxi.

LAKE Pass, Rocky Mountains, xxx. 296. LAKE Regions of Equatorial Africa. See Burton, xxix. the whole.

Lakes, hints on collecting information

regarding, xxiv. 354.

-, Great African, Livingstone's information regarding, xxvii. 354history of knowledge of, xxix. 231 et passim—xxx. p. clix. See also MACQUEEN, XXVI. 116-119.

— of Damascus, xxvi. 47; xxviii. 230.

— of Peru, xxvi. 213.

– of San Salvador, xxviii. 355,

LAKES.

Lakes of Tibet, xxi. 63; xxiii. 28,

— with a plurality of outlets, xxii. 183, 188; xxvii. 96, 351; xxx. 59

- without outlet, xxiii. 46; xxvi. 214; xxx. 58.

Lake Amatitlan, Guatemala, xxx. 58.

— Angelo Castro, Ætolia, xxvii. 1.

— Apaneca, San Salvador, xxviii. 354. — Apasteque, San Salvador, ib. 352.

-, Artillery, Arctic America, xxvi. 19.

- Athabasca, British North America, xxii. 183, 185.

– Atitlan, Guatemala, xxx. 58. — Aullagas, Bolivia, xxvi. 214.

— Aylmer, Great Fish River, xxvi. 19, 20, 24, 25.

— Baikal, Siberia, xxviii. 377.

— Barrow, Arctic America, xxv. 249.

— Baryn Tarei, Dauria, xxviii. 415.

—, Beaver, British North America, xxii. 182.

-, Beer Vlei, South Africa, xxviii. 154, 155.

-, Buffalo, British North America, xxii. 183.

- Buir (Buir Nur), Mongolia, xxviii. 414.

· Camaltotal, San Salvador, xxviii. 353.

- of Cambodia, or Talé Sab, xxx. 179.

- Cascatlan, San Salvador, xxviii. 352.

- Cerro Prieto, North-West Mexico, xxx. 41.

— Chad or Tsad. See Chad.

— Chalchuapa, San Salvador, xxiii. 353.

- Chinchacocha or Lake of the Kings, Peru, xxvi. 213.

-, Clinton Colden, Arctic America, xxvi. 19, 24, 25.

-, Coldwater, British North America, xxx. 270.

-s, Columbia, Rocky Mountains, 30, 290.

- Condocondo. See Lake Aullagas. — of the Cross, British North America, xxx. 270.

– Cuatepeque, San Salvador, xxviii. 352.

- Danau Malayu, Borneo, xxiii. 70. —, Deer, British North America, xxii. 183.

— Deone, Bulgaria, xxiv. 79, 80.

—s, Dismal, Arctic America, xxii. 96.

LAKE.

Lake, Dog, British North America, xxx. 269.

- Endaugyee, Burma, xxvii. 67. - Fisher, Prince of Wales' Land, Arctic, xxiii. 128.

— Franklin, Arctic America, xxvi. 21, 24; xxvii. 321.

- Garry, Arctic America, xxvi. 21; xxvii. 327.

– La Girotta, Upper Savoy, xxv. 190.

-, Glacier, Rocky Mountains, xxx. 301.

— Guija, San Salvador, xxviii. 350.

—, Halfmoon, British North America, xxii. 182.

- Ikwa or Rukwa, African Lake Region, xxix. 305.

- Ile la Crosse, British North America, xxii. 183.

- Ilopango, xxviii. 358.

- Khurgyal (Tso-Khurgyal), Tibet xxiii. 49.

- Kinibalu, Borneo, xxiii. 70. – Kokolai, Ceylon, xxvii. 332.

— Konkyal, Tibet, xxiii. 36, 48. - Langak, Tibet. See Lake Rakas

Tal. — Lauricocha, Peru, xxvi. 213, 215. —, Leaf, British North America,

xxx. 267. - Lhopanjo, San Salvador, xxviii.

353. - Liangtze, Yangtsekiang, xxx. 89.

- Lizzard, British North America, xxx. 285.

- Macdougall, Arctic America, xxvi. 25.

— Managua, Nicaragua, xxx. 58.

— Manasarowar, Plateau of Tibet, xxi. 63, 64; xxiii. 10, 13, 28, 36, 39, 48.

- Manitoba, British North America, xxii. 179.

Mapham (Tso-Mapham). Lake Manasarowar.

- of Masindi, East Africa, xxviii. 213.

— Masoya, Nicaragua, xxx. 58.

— Methye, British North America, xxii. 183.

- Mofo, South Central Africa, xxx. 154.

— Moriri (Tso-Moriri), Tibet, xxiii. 28, 36, 39, 50, 51, 60, 61.

—, Musk-ox, Great Fish River, xxvi. 20, 24.

— Neyriz or Kheir, Shiraz Pr., Persia, xxv. 70, 71.

— of Nicaragua, xxi. 96 seqq.

LAKE.

Lake Nyoungyuwé, Burma, xxvii. 80,

- Omanbondé in Damaraland. See Omanbonde.

— Orel, Amur, xxviii. 399.

-, Ottertail, British North America, xxx. 267.

-, Pangong, Tibet, xxiii. 13, 46 seqq. See Pangong.

- of Parinas, South Peru, xxi. 120.

, Pelican, British North America, xxii. 182.

- Pelly, Arctic America, xxvi. 21. - Pine Island, British North Ame-

rica, xxii. 182.

- Rainy, British North America, ib.

177, 179.

- Rakas Tal, Rawan Rhad, or Tso-Langak, Tibet, xxi. 63; xxiii. 28,

- Rasiganagah, British North America, xxx. 270.

-, Redberry, British North America, ib. 278.

- Rukwa. See Lake Ikwa.

- Rul, Tibet, xxiii. 47, 48, 61.

- St. Ann, British North America, xxx. 280, 285, 308.

- San Juan de Dios, San Salvador,

xxviii. 353.

- San Salvador, San Salvador, ib. 352. - Shaldat (Tso-shaldat), Tibet, xxiii.

--, Slave, Great, British North America, xxii. 184, 186.

-, Lesser, British North America, ib, 184.

-, Smith's, (?) Cambodia, xxx. 180. —, Sturgeon, British North America, xxx. 269.

- Superior, xxx. 268.

-, Sussex, Arctic America, xxvi. 19, 25.

- of Thousand Islands, British North America, xxii. 177; xxx. 269.

- Titicaca, Peru, xxvi. 213.

—s, Trona, Fezzan, xxiv. 276, 279.

— Tsad. See Chad.

—s of Tsowar, Tibet, xxiii. 51.

For other Tibetan Lakes look for the name without the prefix Tso.

- Tungtingtu, Yangtschiang, xxviii. 289.

– Urcos, Peru, xxvi. 213.

— Vrachori, Ætolia, xxvii. 1, 3, 4.

— Wakatip, Otago, xxviii. 324.

- Winnepeg, xxx. 268; and sec Winnepeg.

- Winnepegoos, British North America, xxii. 179.

LANGUAGES.

LAKE Wollaston, British North America, ib. 182.

- of the Woods, British North Amcrica, ib. 177, 178; xxx. 270.

, Woody, British North America, ib. 182.

- Yojoa or Taulebe, Honduras, xxx.

58 seqq. Lakeita, North Central Arabia, xxiv. 174, 175.

LAKHON, Shan State. See Lagong.

Lalakoi, Balkan, xxiv. 57.

Lalupawn, Yoruba, xxx. 213.

Lamantsjieri, Mountain, New Guinca, xxviii. 266.

LAMBERT Island, Arctic Sea, xxii. 80.

Lamu, East African coast, xxix. 31, 32, 46, 296, 399.

LAMUPA River, South-East Africa, xxx.

Lancaster, the navigator; at Zanzibar, xxix. 2—at St. Helena, xxx. 262.

LANCHANG, Lantshang, Lantsan Kiang, xxvii. 89; xxx. 182. See Mekong River.

Lanchian, Lantchian, Shan State, xxvii.

105, 106. LAND Tenures in South Persia, xxvii.

-, accretion of, in Euphrates Delta, ib. 186.

LANDAK diamond mines, Borneo, xxiii. 73.

Lander's death, xxv. 110.

Lane and Porter, gentlemen employed on Kelley's Darien surveys, xxvi. 175. Langchen Tsangspo, or "Elephant

River," the Sutlej in Tibet, xxiii. 8, 9, 32, 35, 37, 38, 40, 48—connexion with Lake Manusarowar, 49.

Langeberg Range, Orange River, xxviii.

153, 166, 181.

Langebongo River, South Central Africa, xxiv. 269.

LANGIONE. See Lanchian.

Lantang Mountains, head of the Ira-

wadi, xxvii. 64.

Languages; of Khasyas of Kumaon, xxi. 82—of Agadez, 169—of Bangbay, 212—of Timbuctu, 213—Budduma, spoken on islands of Lake Chad, 214; of Polyncsia, 239—of Tule (misprinted Yule) Indians, 241 -of Damaras and adjacent tribes, xxii. 160, and xxv. 96—of Bunda, South Central Africa, xxiv. 273—on collecting information regarding, 356—of Harar, xxv. 145—of Jimma, Gallas, Adderay, and Somal, 214—of Siam, xxvi. 71—of Peru (Aimarra and Qui-

LANGUIATU.

chua), 218-19-of Vancouver Island, xxvii. 294—of South Africa essentially alike in structure, 370—Malay and Maori compared, xxviii. 330-Wagogo, xxix. 161 — New Guinea, xxx. 174—spoken at Ghadamis, 257.

Languiatu River, San Salvador, xxviii.

Langshan, Yangtsekiang, xxx. 77, 94,

Lankaoa, Yangtsekiang, ib. 82.

Langeanke, Yangtsekiang, ib. 84.

Lansewshan Island, Chusan, xxiii. 245.

Lantsan River. See Mekong.

Laos; States, xxvi. 72, 73—white and black bellied, 74; xxx. 182, 183, 195. See also Shan.

LAPHUN, Laos or Shan State, xxvi. 74. Same as Labong, q. v.

LAPIE, Col. Pierre; Obit. Notice, xxi. p. lxi.

Lapie's Map of Greece, xxvii. 6. LARA River, Darien, xxvii. 201.

-, a country south of Darfur, xxiii. 121.

Lartigue, Observations on Pacific current, xxiii. 224.

Lasaf. a desert vegetable in North Arabia, xxv. 277.

Lashi, Yoruba, xxx. 219.

Las Rayas. See Pintados.

LATACUNGA, Ecuador, XXX. 66.

Latas, Ecuador, xxviii. 345.

LATEMBWA River, South Central Africa, xxx. 150. See Lotembwa.

LATHAM and Christison Mountains, Chadda River, xxv. 115.

Latitudes by various observers. See under Tables.

Latron, Palestine, xxiv. 11.

Lattakoo, South Africa, xxviii. 183.

LAU, a name applied to a certain part of what our maps call Laos, xxvii.

Lau-Laus, wild tribe near the Mekong River, xxvii. 91.

Laurence, Hon. Abbott; Obit. Notice, xxvi. p. clxxx.

Lieut., West India surveys, xxi. p. lxvi.

Lauricocha, Lake of, Peru, xxvi. 213,

Laurie, Richard Holmes, Obit. Notice, xxix. p. cxxxvi.

Lava formation of the Lejah of Bashan, xxvi. 52.

LAWA-MEEN, a Chinese name for Burma, xxvii. 91.

Lawas, wild people east of Burma, xxvii. 90, 91, 99, 107.

LEEBA.

Lawry and Amos, missionaries at Tonga, xxii. 100, 110.

LAYARD, quoted, xxvi. 133—on Susa and the Eulaeus, xxvii. 122.

LAZY Portage, British North America, xxx. 269.

Le, Ladak, snowfalls at, xxi. 70; xxiii. 13, 29—winter and summer climate, 58-61—experiments on temperature of earth at, 63—barometric pressure at, 64.

LE CLERC, General, at San Domingo, xxiii. 267.

Lead; vein in Murchison River, West Australia, xxii. 72, 73 – mine at Sergheli, Kerman, xxv. 27.

Leading questions, mischief of, xxviii.

LEAF River, British North America, xxx. 267.

Leake, Col. Martin, cited, xxvii. 18, 21 —on Sellasia, 34, 46, 51—his map of Marathon, 31; xxx. 209 — Obit. Notice, xxx. p. cxiii.

LEAMBEGE River, Central Africa, xxiv. 267.

Leangkiang, China, xxviii. 291.

Leangshan, Yangtsekiang, xxx. 81.

LEATHER imports into China at Kiakhta, xxiv. 308.

Lebanon, xxiv. 24, 34—cedars, ib. See Porter, xxvi. 43.

Lebutar, Manchuria, xxviii. 407.

Lebweh, Fountain of, Coele Syria, xxiv.

Lecaros Mine, Tarapaca, xxvi. 229.

LECHÆUM, Corinth, xxvii. 10.

LEDDAN River, one of the upper streams

of Jordan, xxiv. 25.

Ledesma, Don Valentine, Outlines of the Geography of Peru, xxvi. 210 position and extent; physical aspect, 211—cordilleras; Costa, Sierra, and Montana, the three natural divisions of the country, 212—rivers, 214—sea, capes, and ports, 216—climate; natural productions, 217—population, 218—languages, 219—political divisions; religion and ecclesiastical divisions, 220 — political condition; departments and their provinces, 221-229.

Lee's observation on Gulf-stream, xxiii.

LEEAMBYE, "the River," applied to the Zambesi, at least above the Falls, xxiv. 293; xxv. 220-224; xxvi. 110, 123, 127; xxvii. 350, 354; xxx. 138,

Leeba or Londa River, a great feeder

LEECHES.

of the Zambesi, xxiv. 297, 298, 305; xxv. 220, 222, 223, 226; xxvi. 123; xxvii. 352; xxx. 152.

Leeches in Cambodia, xxx. 181.

Leesemage River, South-East Africa, xxx. 146.

LEEUW Port, South Africa, xxviii. 173.

Lefun, Nupe, Niger, xxx. 227.

Legya, Shan State, xxvii. 97.

Lehmann's journey to Samarkand and Bokhara, xxlii. p. lxxxviii.

Leichhardt, his fate, xxi. p. lxxxi.; vol. xxiii. p. exxviii.; vol. xxix. p. ccxi.—referred to, xxii. 229—search for, xxv. p. xcvii.—cited, xxvi. 185.

River, North Australia, xxviii. 102.

Leidenburg, South Africa, xxii. 139. Leina, Wells of, Central Arabia, xxiv. 168.

LEITH, Mount, North-East Australia, xxviii. 130.

Lejah, Argob of Old Testament, Trachonitis of New Testament, a wild circuit of volcanic rocks in Bashan, xxvi. 49, 50, 52; xxviii. 229, 233, 236, 237, 243—entered by Mr. Graham, 259, 260.

Lejjun (*Legio*), Esdraelon, xxiv. 9. Lekone River, Zambesi, xxvii. 363.

Lelewel's 'Geography of the Middle

Ages,' xxi. p. lxxi. Lemesurier River, Aretic America, xxvi. 23; xxvii. 325.

Lemm, his astronomical observations adjoining the Sea of Aral, xxiii. 94, 96.

Lemmings vastly numerous in Novaia Zemlia, xxii. 120.

Lemon, North-West Mexico, xxx. 8.

Lempa River, San Salvador, xxviii. 349. Lenkoran, Caspian; its climate, xxi. 5, 6, 11, 12.

Leo Africanus, quoted, xxi. 133, 134,

137; xxx. 119, 123. Leon, French missionary, his Reports from the Upper Nile, xxx. 136.

-, Mexico, *ib.* 47. —, Ecuador, *ib.* 66.

Leopards in Borneo, xxiii. 75.

LEOPOLD Island and Harbour, Arctie Sea, xxiii. 123.

Lesser Slave Lake, xxii. 184.

Leslie's rule for barometric heights, xxi. 55.

Lethami Mound in Babylonia, xxvi.

Leti Island, Delta of Danube, xxx. 166. Lencas, Grecce, xxvii. 3, 7, 10. Leuhwa Valleys, Chusan, xxiii. 345.

Leushan, Kiangsi, xxx. 85, 88.

LEYCESTER.

Level, of Dead Sea, xxiii. 163 seqq. changes of, in Isthmus of Suez, xxiv. 235—and in Runn of Cutch, ib.—relative, of Pacific and Atlantic, xxvi. 181; xxvii. 198—systematie observations of, in Russia, xxix. p. clxvii. Lewes River, British North America,

xxii. 187.

Leycester, Lieut. E. M., R.N., 'Some Account of Volcanic Group of MILO, ANTI-MILO, KIMOLO, and POLINO,

xxii. 201. These notices to accompany Survey by Lord John Browne, 201the circular harbour, ib. - the Scala; the mediæval town now almost abandoned, 202—detail of the coast features, by Lord J. Browne, 202-205— Kimolo the ancient Cimolus, Argentiera of old charts, 205—harbour; ancient tombs, 206-Polino or Nipolino; Anti-Milo, ancient tank on summit, 206—wild animals; coast circuit of Milo, 207—Sailing Directions for Milo harbour, 207—Mount Elias and view from it, 208-Kastro, ib. convent Santa Marina, 209—vein of gypsum, ib.—ancient city of Melos and its remains, ib.—theatre, 210—Cyclopean masonry, 211—other remains, ib.—vast extent of tombs and eatacombs, 212 - Christian indications, ib.—measurements of catacombs, 212, 214—frescoes, 214—few inscriptions, ib.—whether a volcano has been in eruption since Christian era? 215— Grotto of Zopyrus, ib. — Hellenic towers, ib.—millstone quarry, ib. hotsprings and alleged virtues, 216 fine ancient tanks, 217-alum-mines, 218 - Mount Kalamo, the sulphurmine, still shows voleanic semi-activity, 219—flames spoken of by Tournefort, ib.—saltpans, 220—gypsum, ib.—Kastro, ib.—the Scala, 221 —Palio Khori depopulated by fever, *ib.*—mineral products, 222—statistics and prices, ib.—millstones, ib.—cotton; dove's-dung (plant so ealled), 223—temperature, ib.—animals on Anti-Milo are ibex, ib.—venomous snakes, and those of Cyprus, 224— —fuller's earth of Kimolo, ib.—pilots of Milo for the Archipelago, ib.— British survey of the islands, and loss of life thereon, *ib*—people, the costume of the women; remarkable fairness of the Meliots, 225—the wine of Milo, ib.—education; fossils, ib.—the port, 226 - speculations as to volcanie

LEYDEN.

origin and disruption of the group of islands, 227.

LEYDEN, Dr., his estimate of the Matan Diamond, xxiii. 74.

Lhasa, Tibet, city of, xxiii. 3.

LHOGYUT, or South Lands of Tibet, xxiii. 16, 25, 27, 35, 40, 67, 68.

LHOPATO, Lhoduk, or Lhomon, Tibetan names of Bootan, xxiii. 2, 4.

LIAMBAE, a reported tributary of the Sesheké, xx. 169: but see *Leeambye*.

LIAMUTENGA River, South Central Africa, xxx. 140.

Yangtsekiang, LIANTZE Lake, XXX. 89.

Libanus, xxvi. 53. See Lebanon.

Libebe, Libabe, north of Lake Ngami, xxii. 169; xxv. 85, 86, 90.

- River, Zambesi, xxvii. 353, 375, 376.

Libberya, Coele Syria, xxiv. 27.

Liberian expeditions, xxx. p. clxvii.

Libertad, a department of Peru, xxvi. 219, 221.

LIBRARY of Sinai Convent, xxv. 275.

Libtako, Negroland, xxiv. 283. Liebenburg, Trans Vaal, xxiv. 290. Liebensberg Vley, Orange River State, xxx. 236, 254.

LIEF Ben Said, Arab trader, his journey to the Great African Lake, xxvi. 117,

Life, duration of, in Switzerland, xxiv. 314.

Life-boat, corrugated metal, xxvii. p. cxliii.—one sent with Burton to Africa, xxix. 9.

LIFUCA, one of the Friendly Islands, xxii. 97.

LIGHT in NORTHERN LATITUDES, in absence of the Sun, Remarks on amount of, by Capt. Sherard Osborn, c.B., xxviii. 371.

LILUN, a tribe of South Yunan, xxvii.

Lima, Peru, city and department, xxvi. 218, 219, 222—observations for longitude, xxviii. 335.

or Nicaragua wood exported from Mexico, xxx. 11, 44.

Limans, or Lagoons, of Sea of Azov, xxvii. 147, 148.

Limestone rocks and caves, very remarkable, San Lorenzo, San Domingo, xxiii. 276.

Limnæa, Ætolia, xxvii. 3, 6.

Limni, Milo, xxii. 209.

Limon River, Samana, San Domingo, xxiii. 274, 282.

LAMPOPO RIVER (South-East Africa), its

LIVINGSTONE.

Origin, Course, and Tributaries, by THOMAS BAINES, XXIV. 288.

Limpopo River, xxii. 139, 140; xxvi. 87, 89; xxx. 250.

Lind Island, Arctic Sea, xxii. 86.

LINDSAY, W. S., M.P., liberality towards outfit of North Australian expedition, xxvi. p. ccxxvii.

Lingi-Lingi Mountain, in South Central Africa, ascended by Ladislaus Magyar, xxiv. 271.

LINYANTI, town of Makololo, South Central Africa, xxii. 165; xxiv. 293, 304; xxvi. 96, 107; xxvii. 349, 353, 354, 358, 365.

Lions; in Sahara, xxi. 164, 165—in East Africa, xxix. 144—in South Africa, xxvi. 85; xxx. 238, 240, 241.

LIRIMA Ridge of Andes, xxi. 103.

LISBURNE, Cape, North Pacific, xxiv. 240.

LIST of Places with Two NAMES, by E. Norris, xxiv. 318.

LITANY River, Syria, xxiv. 3, 4, 24, 27, 35.

LITTLE Fish Bay, or Massomedes, South-West Africa, xxii. 155. See Massomedes.

- Fork Pass, Rocky Mountains, xxx. 296.

 Klip River, Natal, xxx. 233. -- Orphan Hill, Yangtsekiang, xxx. 85, 97.

- St. Bernard, xxv. 185.

- Stone Top, St. Helena, xxx. 264. LITTLETON Isles and Island, Arctic Sea, xxvi. 214.

LIUMUTENGA River, South Central Africa, xxx. 144.

Liusum Mountains, Bulgaria, xxiv. 80. LIVERPOOL Plains, New South Wales, xxii. 230.

Range, New South Wales, xxii. 230.

- River, North-West Australia, xxviii. 142.

LIVINGSTONE, REV. DR. D., Extract of Letter from, dated Kolobeng, 24th August, 1850 (containing account of his second visit to Lake Ngami), xxi. 18—the chief Sechele's anxiety to visit Sebitoane and Sekhome, 19the Bakalahari; the Bakarutse; cross the Zouga River; the Tsetsé Fly; visit the Lake; obliged by fever and fly to return, 20—the malaria; necessity for a passage to the sea, 21 obstruction by the Boers, 20, 21-Livingstone's plans; information as to lake or marsh to the northward;

LIVINGSTONE.

the Teoge River; other rivers and tribes on their banks; fish in the Zouga, 22; crocodiles, hippopotamuses; mode of fishing; trees; banyans; palmyra; baobab; other vegetable productions; pitfalls; elephants, 23—other animals; Kalahari Desert and people; mode of obtaining water; Bushmen of the Desert; Botletlé; animals, 24—the eland; salt-pans; desiccation of the country in progress.

LIVINGSTONE, REV. DR. D., and W. C. OSWELL, latest explorations into CENTRAL AFRICA BEYOND LAKE

NGAMI, XXII. 163.

Narrative starts from 'Nchokotsa, s.e. of Lake Ngami; salt-pans; springs called Matlomaganyana, or the Links, 164—superior Bushmen; the Mopané tree, and its insect used as food; excessive drought; reach Ba-koba villages on Mahabi River; the Tsetsé; reach the Chobé, 165—Sebitsano, great chief of the region, his history; dies during their stay; succeeded by his daughter, 166—ride on to the great River Sesheke; return

towards the colony.

Region governed by the Makololo; swamps and great perennial rivers, 166-7—the Chobc and Sesheke and their floods; trees, baobab, date, palmyra; others bearing edible fruits; crops raised; earth-bean, sugar-cane, sweet-potato, &c., 168—moist soil; inroads of Mosikelatsc; sources of the rivers; obscure information as to upper course; great falls reported below, 168; black tribes of the country, 169—their linguistic relations, 170; their arts; custom of knocking out upper incisors; introduction of slavetrade; reported great lake, 171 abundance of elephants and waste of ivory: the Tsetsé fly, and effects of its bite confined to domestic animals, 172-3—Extract of letters from Livingstone and Capt. Parish, 173.

-, Explorations in the Interior of Africa, xxiv. 291.

Fever Ponds; formidable reeds of the Chobé, 292 — Linyanti, 293 — Zambese or Leambye River; savagery, what it is; slave-trade, 294 executions; ascent of the Zambese, 295—Falls of Gonye; artificial sites of villages, 296; Barotse a region of plenty, but unhealthy; native

LIVINGSTONE.

remedies for fever; the tsetsé, 297 the Leeba River; the chief Santuru, and his memorials; native view of a halo round the sun, 298—slave-mer-merchant's stockade; Pereira's course, 299—Arabs who had crossed the continent, remarks on astronomical observations, abundance of game, and rumours of new animals, 300—birds: table of observations, 301—letter from Mr. Maclear to Sir John Herschel regarding these; more observations, 302—notes by Mr. Maclear, 303— General remarks on observations.

LIVINGSTONE, REV. DR. D., Do., Do., continued, xxv. 218.

Letter sending Table of Observa-

tions.

Narrative Letter to Sir R. Murchison, 219 — Sekeletu's country, and neglect of its commerce, 220—abindance of elephants, and mode of killing; descend the Chobé, 221—ascend the Leeba, 222—great difference of the people from the Bechuanas; the chief Shinté; good reception, 223clearness of the river water, though in flood, and cause, 224—repeated fever; Lake Dilolo; Kasye or Loké River; Balonda country, 225—elevated tableland; Cassange, the extreme Portuguese settlement; and Quango River; country populous and plentiful, 226 -exactions attempted; kindness of the Portuguese, 227 — arrival at Loanda, 228 - Mr. Gabriel's kindness; proposed return and journey to the eastern coast.

On the Province of Angola, 229 vegetable products, 230 - Cassange, 231—Ideal Section of the country, 232—geological notes, 233—government; convict garrison; diffused instruction, 234—commerce; the Kasye and Quango, said to from the Congo, 235.

Letter from Mr. Gabriel at Loanda to Lord Clarendon, 235—reports Dr. Livingstone's return as far as Cabango, 236—his sufferings on the road.

Mr. Gabriel to Consul Brand, 237.

———, Do., Do.,

xxvi. 78.

Letter from Mr. Maclear to Sir R. Murchison.

Letter from Livingstone to Sir R. Murchison regarding his observations, &c., 80.

LIVINGSTONE.

 $Table\ of\ Results\ of\ Observations\ from$

the Leeba to Angola, 82.

LIVINGSTONE, REV. DR. D., Explorations in the Interior of Africa, xxvii. 349.

1. From Cabango to Linyanti, &c.

Rate of travelling, 350—proposed journey to residence of Matiamvo abandoned; lake with double outlet, 351, 352—remarks on formation of Interior Africa; basin form, 353-355gradual desiccation of Bechuana country, 356—good behaviour of the Makololo; use of commerce in breaking up the isolation of heathenism, 357.

2. From Linyanti to the Falls of Victoria, and along the Zambesi to

Tete, &c.

Kindness of Sekeletu, 358—the "smoke-sounding" falls of Zambesi, 358-62—eastern ridge of the basin, 365—probability of sanitaria on these

ridges, 366.

3. On the People of South Africa, &c. Caffre people of the eastern hilly regions, 367—the Bechuana more towards the centre, 368 — the Hill Bechuana very superior to those of the desert, who approach Australians; the real Caffres or Zulus, 369—the Bushmen; Bayeiye or Bakoba; identical structure of language in all the tribes, 370—the Bushman perhaps no exception; the Bible in Sechuana, 371—three new antelopes; larger development of animals in the temperate than in the equatorial regions; elephants on the Zambesi; treatment of the traveller on the Zambesi; hopes for the perpetuity of the African race, 372--previous attempts to cross the continent, 373—José de la Rosa; Dr. Lacerda; Pedro João Baptista and Antonio José; Arabs from eastern coast to Loanda; Livingstone's conclusion, 374.

4. On the Lower Part of the Zambesi. Morumbala Mountain, with hot sulphureous fountain on its summit, 375; the Zambesi at Tete; navigation, 376-377—Quilimane, its insalubrity, 378—coal, iron, 379—gold, agriculture, 380—the slave-trade, 382 -effect of the British cruizers, 384-Lupata and its real height, 385-

Sofala, 386.

5. Relates arrival at Quilimane, and at Mauritius, 386-7.

—–, reports a

LLOYD.

lake north-west of Lake Ngami, xxi. p. lxxxv.—his explorations, xxii. p. exvii.; vol. xxiv. p. xevii.—award of medal to, xxv. pp. viii., lxxvi.—his journey to Loanda, xxv. pp. xcv., exevi.; vol. xxvi. p. ecxiii. — Moffatt's journey to succour him, xxvi. 84. See Macqueen, 109, 127, &c.; xxvii. p. clxviii. his Zambesi expedition, xxviii. p. cc.; vol. xxix. cxc.—his leave-taking, ccxxi.—his mention of the great lakes, see Burton, xxix. 234, 237, 279.

Livy's account of Philopæmen's operations against Nabis, xxvii. 47.

LIZARD Island, North-East Australia, xxviii. 6.

Lachu, or subaqueous pastures of Lake Titicaca, xxvi. 214.

LLAMAS, XXI. 116, 118.

Llanganate Mountain, Ecuador, alleged richness in gold, xxx. 72, 73.

Llopanjo Lake, San Salvador, xxviii.

LLOYD, COLONEL J. A., Chargé d'Affaires in Bolivia: The Mines of Copiapo, Communicated by Prince Albert, xxiii. 196.

Caldera, roadstead and capital of Copiapo; British Mining Company; desolation and mineral wealth, 197enormous silver deposits; rise in market value of shares, 198—mining districts; Los Tres Puntos; Colorado Mine; Chanarcillo, its wonderful riches; discovery by Juan Godoi; the "Stone Table," 200—pierced by Gallo; his eventual success; general facts about this dyke or table, 201list of chief mines of Chanarcillo, 201—those of Tres Puntos, their discovery, 202—the chief mines in this district and total number of mines; great want of water and loss of life, 203—export of silver; the Port of Caldera; Mr. Wheelwright, 204railway to Copiapo; mineralogical and metallurgical remarks, 205coal-mines, 206-limestone; alkali; yet no smelting furnaces. Appendix of Mining Statistics, 207-212.

Report of a Journey across the Andes, with Remarks on the proposed communication between Bolivia and the AT-LANTIC, viâ the Amazon, xxiv. 259.

Object of journey during the height of the rainy season; Cochabamba; want of useful vegation in its neighbourhood; passage of dangerous

LLOYD.

mountain, Cuesta de Paltacueva; remarkable aridity on one side, and rich vegetation on the other; immense size of forest trees; the soroche, a malady of the lungs produced in great altitudes, 260—tertian fevers in the forest land; Espiritu Santo; coca plantations; extreme unhealthiness of country; route along the banks of the Paracti, 261—abandoned mission of San Antonio; River San Mateo; Yurucaree Indians; venomous insects; perilous passage of San Matco, 262—impenetrable forests, and continued rains; large Indian settlement; route from Vinehuto to Chimoro, 263—rivers Coni and Chaparé; River Yeni, dangerous in rainy season, and not navigable; Yurucaree settlement of Chimore; River Chimore; strength of the current; traffic to Moxos, 264—enormous obstacles to continuous navigation from Bolivia to Brazil, 264-5—deadly fever experienced by the party.

Maps; Death of Col. Lloyd in

Crimea.

LLOYD, COLONEL J. A.; his papers noticed, xxiii. p. cxxii.; vol. xxv. p. cxxix.; Obit. Notice, xxv. p. xci.

Lullaillaco Mountain, Atacama, xxv.

167.

Loa, and River, southern limit of Peru, xxi. 116; xxvi. 211.

LOANDA, Dr. Livingstone's Journey from the Leeambye to, xxv. 219 his arrival at, 228, 234.

Loanguinga, South-East Africa, xxx. 142.

Loangwa, South Central Africa, xxvii. 3**5**4, 367, 378.

LOAPUTO River, South Central Africa, xxx. 138.

LOBALA Valley, Matebele country, xxvi.

LOBALE River, heard of as the source of the Sesheke, xxii. 169; xxiv. 270, 297—its plains, west of the Leeambye, xxv. 223, 224.

Lobar, or Lovar, South Central Africa, xxvi. 124, 126, 128, 129.

Loch, Capt. Granville, R.N., Obit. Notice, xxiii. p. lxxiv.

—, James, Obit. Notice, xxvi. p. clxxx.

- of Wattin, Wick, xxvii. 232.

LOCKHART, WILLIAM; The YANGTSE-Keang and the Hwang Ho, or Yellow River, xxviii. 288.

Yangtsekeang Greatness of River,

LOFTUS.

and vast population of its basin; its course in Yunnan; in Szechuan, 289—in Hupih; coal and iron-fields; Wuchang, Hanyang, and Hankow, 289-90 — Kew-Keang in Keangse, 291 — Keang-Nan, Nanking, 292-Chinkiangfu; mouth, Shanghae, 293.

On changes in the Yellow River. General description; navigation almost impracticable, 294—frequency with which the river bursts its banks; Mr. Wylie's attempt to reach Kaifungfu; finds the channel of the Hwang Hoabandoned; the waters having escaped into the Gulf of Pecheli, doing great damage; great trouble and expense caused by this river, 295—neglected since the rebellion.

Course of the Taeping Rebellion. Note by S. M. Drach on the Jewish

settlement at Kaifungfu, 297.

Lockyer Point, Arctic America, xxii.

Locusts in Persia, xxvii. 153, 155—in South Africa, xxx. 238, 253.

Locust-birds, in South Africa, xxx.

Loena, reported tributary of the Sesheke, South Central Africa, xxii. 169.

Loengue River, South Central Africa, xxx. 140-142, 152.

LOETI River, tributary of the Leeambye, xxiv. 297, 305; xxvii. 353.

Loftus, W. Kennet, Notes of a Journey from Baghdad to Basran, with descriptions of Chaldean Remains, xxvi. 131.

This region rarely traversed; set out from Baghdad; Hillah, 132—sandhills; mound of Sherifeh, 133 canals; tombs of Imams, 134—Tower of Zibliyeh, 135—camp of Sheikh Said and inhospitable reception; failure to reach ruins of Niffar, 136—reed town of Shkhiyer, 137—the marshes; visit Niffar, 138—Diwanieh on the Euphrates, 140—proceed through the Jezirch, 141—ancient mounds, 144—ruins of Hammam; Babylonian statue; Christians of St. John, 145—Tel Ede, 146—Montefik Arabs, their savage aspect; Warka and its remains, 147—Duraji on Euphrates, 148—the Mugayer ruin, 149 — Suk-es-Sheioukh, 149 — journey through desert south of Euphrates to Sobair, 153—and Busrah. Construction of the map by Mr. Churchill, note on marginal bearings.

LOFTUS.

Loftus, W. Kennet, On the Determintion of the RIVER EULEUS, XXVII.

Site of Susa inseparable from, 120 —identification of its rivers; determination of the former in 1850-51; Col. Rawlinson's view of the Eulæus, 121—Messrs. Long and Layard's, 122 —the author's view that the Eulæus was a bifurcation of the Kerkhah, 122 — arguments from authorities, 123-8 — positive traces of such bifurcation, 128-and tradition, 129analogous bifurcations in this region, ib.—Appendix of extracts from ancient authors on Eulæus, 131—in Arrian; Strabo, 132—Diodorus; Pliny; Ptolemy, 133—Q. Curtius.

Basrah noticed, xxvi. p. ccxvii.— Obit. Notice, xxix. p. cxxxvii.

Logan, Sir William, Director of Geological Survey of Canada, xxviii. p. clxxvii.

Logon, or Loggone, people of Negroland, xxx. 122.

Lohengue, South-East Africa, xxx. 144, 145.

Loja, Province and Mountain knot of,

Ecuador, xxvi. 211, 212. Lokologe River, tributary of Leeba, South Central Africa, xxv. 224.

Loke River (or Cassai?) South Central Africa, xxvi. 121, 122. Lokova, White Nile, xxix. 276, 277;

xxx. 133.

Lolos of Duhalde, apparently the Shans of Yunan, xxvii. 92.

Lombe River, South Central Africa, xxvi. 82, 83, 122.

Lombo or Jombo River, South Central Africa, xxx. 151.

Lombullo, South-East Africa, xxx. 145. Londa or Lunda, the extensive country under a chief called Matiamvo lying between the head of the Leeba and Lake Tanganyika, also including Cazembe, xxv. p. cxix., 222, 231; xxvi. 80, 124, 126, 129; xxvii. 354; xxix. 212; xxx. 151—applied by Macqueen also to Lucenda, the chief place of Cazembe, xxvi. 111-113. See Balonda, Cazembe, &c.

—— or Leeba River, xxiv. 297. Londesborough, Lord, Obit. Notice,

xxx. p. cxvi. Long, Prof., on the Eulæus, referred to, xxvii. 120.

-- River, British North America, xxx. 271.

LOTLAKANE.

Long Island, Bahamas, in connection with first voyage of Columbus, xxvi.

194, 196, 199.
Longa River, South Central Africa, xxx. 138.

Longchuen, Yunan, xxvii. 58, 70,

Longe River, South Central Africa, xxv. 225.

Longitude, On Instruments and Observations for, for Land Travellers. By Col. G. Everest, xxx. 315.

—, best observations for, by

travellers, xxiv. 331, 349-351.

of West Coast of South America, rectification of, xxvii. p. clxxxix.; and see Moesta, xxvii. 333.

— of the Irawadi River, xxvii. 60.

For Observations of Longitude, see Tables.

Longoma, South-East Africa, xxx. 142. Longwood, St. Helena, xxx. 263.

- Range, Otago, xxviii. 319. LONTA, reported tributary of the Sesheke (or Upper Zambesi), apparently the same as the Londa or Leeba, q. v., xxii. 169.

Londo, or Lopburi, Siam, xxvi. 76.

LOOKIANG (Lukiang) River, Indo-China, xxvii. 54.

Lopez's account of discovery of St. Helena, xxx. 261.

Lopburi, a former capital of Siam, xxvi. 75-77.

Loquek, White Nile, xxx. 132.

Loquera, South Central Africa, xxx.

Loreto, Peru, on Amazons, xxvi. 211. Lort River, Western Australia, xxii. 27.

Los Frayles, quicksilver mines in Atacama, xxiii. 129.

Los Tres Puntos Mines, Atacama, xxiii. 198, 202, 205.

Lospers Plaats, South Africa, xxviii.

Loss of life on Levant Surveys, xxii.

Losuma or Rovuma River, South-East Africa, xxx. 146.

Lota coal, Chilé, xxv. 173, 174. Lotembwa River, South Central Africa, xxv. 224; xxvi. 82; xxvii. 351. Compare Latembwa, Lutembo.

Lotien Mountains, Hupeh province, China, xxx. 89.

Lotlakane, South Central Africa, xxiv.

LOTUS.

Lotus, varieties of, in Cambodia, xxx.

Louis Creek, Kwora River, xxv. 110. - Napoleon Island of Inglefield, found by Kane to have been only ice, xxvi. 4.

Louisiade Archipelago, xxi. 13, 15—

its language, 240.
Loukon River, Laconia, xxvii. 43.
L'Ouverture, Toussaint, xxiii. 267.
Lovar or Lobar, kingdom in South
Central Africa, xxvi. 124, 126, 128, 129. See Luvar.

Low Island, North-East Australia, xxviii. 6.

LOYALTY Islands, see under New Hebrides, xxi. 234 seqq.

Luabo or Cuama, a mouth of the Zambesi, xxvii. 377.

Luachama River, South Central Africa, xxvi. 122.

Luala River, Quilimane, xxxvii. 377.

LUANA River, South Central Africa, xxx. 150.

Luangera River, East Africa, xxviii.

Luanza, South Central Africa, xxiv.

LUAPULA River, South Central Africa, xxiv. 270, 275; xxx. 150, 152, 154.

LUAXE River, South Central Africa, xxx. 151.

LUBBEIN, ancient town of Lejah Bashan, xxviii. 260.

Lubieh, Galilee, xxiv. 22. Lubnitza, Balkan, xxiv. 76.

Lucan, touching the Nile sources, xxx.

Lucenda, Usenda, Lunda, capital of Cazembe, Central Africa, xxiv. 269; xxvi. 111, 112, 114, 130; xxix. 255, 258, 305, 388; xxx. 152, 153.

LUENA River, South Central Africa, xxiv. 272; xxvi. 124.

Lues, existence of, in East Africa, xxix. 388.

Lueze River, South Central Africa, xxvi. 122.

Luffia River, South Central Africa, xxvi. 116, 120.

LUGEBUNGO River, South Central Africa, xxvi. 124. Compare Lunguebundo, Lumbungo.

Luhi River, South Central Africa, xxvi.

Lui River, South Central Africa, xxx.

LUITZAINE River, tributary of Limpopo, South-East Africa, xxiv. 289.

LUVIRY.

Luke, Mount, Western Australia, xxvi. 258.

Lukoya Lake, near Kilimanjaro, xxx. 131. See Lokoya.

Lulua or Luluba River, South Central Africa, xxiv. 269; xxvi. 122, 124, 128; xxx. 151.

LUMBUAMBUA River, South Africa, xxx. 137.

Lumbungo River, South-East Africa, xxx. 143.

Lume River, South Central Africa, xxvi. 124.

Lumegi River, South Central Africa, xxiv. 272, 273.

Lumsden, Mr., of Bombay Council, xxv. 137; xxix. 9.

Lunar Mountains, xxix. 20, 27, 205, 235, 253, 273, 276, 277, 283, 284— Lunatic Mountains, according to Burton, xxv. 142.

- Distances, see Everest, xxx. 315. - Observations, by Galton, in South Africa, xxii. 162 — hints on taking, xxiv. 331, 349, 350.

Lanconquexia, South Central Africa, xxvi. 121, 122.

LUNDA, South Central Africa. Londa.

LUNDE River, South Central Africa, xxx. 143.

LUNGNAK ("the Black Vale") in Zangskar, Ladak, xxiii. 14, 16, 27, 29, 37, 38, 40, 41, 51.

Lunguebundo River, South Central Africa, xxiv. 267, 269.

Lunupa River, South-East Africa, xxx. 146.

LUPATA Gorge and Range, on Zambesi, xxvii. 375, 376, 378, 384—absurd exaggerations about, 385; xxx. 158, 159.

LUPIRE River, South Central Africa, xxx. 138.

Lur, Loor, tribes in Persia, xxvii. 111,

- Buzurg ("Great Lur"), xxvii. 170.

LUTEMBO River, South Central Africa, xxvi. 124. See Lotembwa.

LUTIPULA River, South Central Africa, xxx. 152.

Lütke cited, as to ursine seals in Arctic Seas, xxii. 120—as to Pacific currents, xxiii. 225, 233, 234.

Lutu Mountains, Fiji, xxvii. 244. Luvar, South Central Africa, xxx. 149,

151, 153. See Lovar, Lobar. Luviry River, South Central Africa, xxx. 152.

LUZ.

Luz silver-mine, Tarapaca, xxvi. 230. Lycochori Torrent, Ætolia, xxvii. 4. Lycurgus, Spartan General, xxvii. 11. Lydda, Palestine, xxiv. 11.

Lying-in custom in Aracan, xxiv. 93. Lyginos River (Paravati), Bulgaria, xxiv. 81, 82.

Lynch, Capt. U.S.N., his survey of the Dead Sea, xxiii. 166.

Lynd River, North Australia, xxviii. 113.

Lynn Canal, British North America, xxii. 187, 190.

Lysimachia, Ætolia, xxvii. 3, 7.

LYTH and CALVERT, missionaries in Fiji, xxi. 222, 230, 233.

Lyttleton, New Zealand, xxi. 33.

M.

Maamer, Mountain of Euphrates, xxvii. 189.

Maan, town in North Arabia, xxiv. 119, 121-127, 129, 137, 203.

Ma Aou, plain in Chusan, xxiii. 245. Mababi River, Lake Ngami, xxii. 164. Mab'ook, spring near Suez, xxiv. 116. Mabruki Pass, East Africa, xxix. 124. MACACOMA OF MUSACUMA, Central

Africa, xxiv. 267, 269, 270.
ACADAM Range, North Australia, MACADAM Range,

xxviii. 15, 139.

Macapan's Hill, South Africa, xxi. 138. MACARTHUR River, North Australia, xxviii. 92.

Macas, volcano, Ecuador, xxx. 71.

Macaw Indians, Vancouver Island, xxvii. 285, 295, 319.

Macdonald, John Denis, Assistant-Surgeon R.N.; Exploration of Rewa River in Nau Viti Levu, Fiji Islands, xxvii. 232—start from Levuka harbour; remarkable coral-rock and its legends, 232—Mbau, the metropolis, 233; enter the Rewa River, 234sacred grove and canal; Navuso, 235 —hospitable reception by chief; reported fresh-water sharks, 236— Naitasiri; received by the teacher, 238; and the chief called "the stout one;" register of cannibal feasts; shout of respect, 239—Viti; temple; canoes sunk by falling rain, 240— Matai Mati, 241—sharks' heads; Turmeric factory, 242—Soloira chief, 244; Vaukaudua, 245—Vuni Mbua, capital of Soloira district; widowstrangling, 247—sorcery; taboo of pigs, 248—gum of Dammara, 249—

MACQUEEN.

of the bread-fruit tree; traditions, 250—prophets; hot springs; Invulnerables, 251—Harry the White Man, 252—sublime scenery; recent cannibalism, 253; service and sermon, 254—ore of antimony, 255—return journey, 256—fish fences, 259—reach Navuso, 260—ascend the Wai Manu; fishing party, 262.

Appendix.—List of towns, 263 list of timber-trees, 265—zoological

list, 267.

MacDonald, Captain of the ship Samarang, discovery of two islands in South Indian Ocean, xxv. pp. xcvii.,

Macdonnell, Sir R. Graves, xxix., p. ccxiv.—his explorations in South

Australia, xxx. p. clxxvi.

Macgillivray, John; Sketch of the Natural History of the Louisiade ARCHIPELAGO and NEW GUINEA, XXI. 15. See under Stanley.

—, his "Voyage of the Rattlesnake" referred to, xxi. 240. Machenga Mountains, South Central

Africa, xxvi. 112, 113, 127.

Mackenzie, Sir Alexander, quoted on Clearwater River, &c., xxii. 183, 185,

- River, Arctic America, xxii. 96; 184, 186; xxiv. 242; xxv. 197. -, North-Eastern Australia, xxviii. 127.

Mackinlay River, Arctic America, xxvi. 21; xxvii. 328.

Maclear, Thomas, Astronomer Royal at the Cape; his Letter and Remarks on Livingstone's observations, xxiv. 301—another, xxvi. 78—his repetition of La Caille's Arc in Caffraria, xxi. p. lxxv.; his triangulation at the Cape, xxvi. p. exevii.

MacLeod, Captain W. C., his journeys in the Shan States cited, xxvii. 55,

xxviii. p. ccv.

-, Licut. J. L. (perhaps same as above?), proposed ascent of the Niger, xxii. p. exxi.

MACLOUTSE River, tributary of Limpopo, xxiv. 289.

MACONDA Tribe, South-East Africa, xxx. 147.

Maconochie Island, Arctic America, xxvi. 18, 23; xxvii. 325.

Macqueen, James; Notes on Geography of Central Africa, from researches

MACQUEEN.

of Livingstone, Monteiro, Graça, &c., xxvi. 109 - Dr. Livingstone's labours, 109—the Leeambye, Zambesi, or Cuama, 110—journeys of Lacerda, Monteiro, and Gamitto to Cazembe, and of Pedro Baptista from Angola to Tete, 111—Lucenda, capital of Cazembe, 112—mountains and rivers between Tete and Cazembe, 112-114 —the Great Nhanja, 114—also a Little Nhanja, 115—former attempts to fix position of lakes of Tropical Africa, 116—the lake as represented in old Portuguese maps, 117—Mueno-Muge or Uniamese, Arab journey to the lake, 118—the great lakes of Africa probably only expanded inundations of rivers, 119—the smaller lake Nyassa or Maravi, 120—Monteiro's account of Cazembe, 120—position of capital of Muata Yanvo; two empires in this part of Africa, 123—the River Cassabi; travels of Rodrigues Graça, 124—postscript, 127.

MACQUEEN, JAMES; Notes on the KILI-MANJARO and the WHITE NILE, xxx. 128—doubts about snow of Kilimanjaro unreasonable; Rebmann's three journeys; the snow, 129—Dr. Krapf, 130—Mount Kenia; expedition sent by the Pasha from Khartum in 1839-40, 131—Werne, 132—Don Angelo; uniformity of statement as to rise of Nile in Sprey statement as to rise of Nile in Snow-Mountains, 133 — Lucan, 134 — Ptolemy's errors in latitudes of South Central Africa, 135—his lakes; the Nile sources not south of the Equator, 136 - Missionary Leon's information.

----; Journeys of Silva Porto with Arabs from Benguela to Ibo and Mozambique, through Africa, xxx. 136—Porto's various journeys, first to Cutonge (the Kutongo of Livingstone), 137 — Boa Vista; Coanza River; Quiengo; the Chobé River, 138; Ganguella people; Nenda River, 139.

2nd Journey.—Starts from Cutonge, 139—Liamutenga River, 140—many other rivers; Loenque River, 141-Camimbe; wild hogs; honey; Camussango, 142—Quicema; Arroango River, 143 — hostilities, 144 — Cubanga; Nhanja or Shire River; elephants, 145 — Lohangue; Riamandura, Hamatapa, 146-Mapenda: reaches the sea near Cape Delgade:

M'CLURE.

kindness of Arabs; Ibo, 147—minuteness and apparent accuracy of Porto's Journal; remarks on Portuguese dominion in Africa; obstacles to navigation of African rivers, 148.

Appendix, 149; remarks on the Biças or Muizas; Luvar; sources of the rivers, 152—Yanvo, capital of Cazembe, 153—Monomotapa, 154.

MACQUEEN, JAMES; Journey of GALVAO DA SILVA to Manica gold-fields in 1788, and description of country south of the Zambesi, xxx. 155—leaves Sena, 155—kingdom of Barue; Manica Fair; gold supply, 156; Massappa; Monomotapa. Gamitto's survey of the Portuguese Colonies, 157—Lower Zambesi; Quillimane, 158—the Shiré; Sena; Gorge of Lupata; Tetc, 159—Portuguese coast settlements; military force; other miscellaneous statistics, 159-161.

—, journey of João Fran-CESCO from Massomedes to Caemdo in

1841, xxx. 161.

his writings on African geography referred to, xxviii. p. cc.; xxix. 3, 77, 166, 167, 195, 208, 217, 233, 255, 273, 276.

MacRae, Lieut. u.s.n., journey aeross

the Andes, xxvi. p. ccxxiii. Macready Point, Vietoria Land, xxii.

McCLINTOCK, Captain (Sir Leopold); his Arctic expedition, xxvii. p. exev. vol. xxix. p. cciii-award of Gold

Medal to, xxx. pp. vii., xev., xeix. McClure, Commander (Sir Robert), discovery of the North-West Passage, xxiv. 240—despatch of Enterprise and Investigator, 240—separation of the two; McClure passes Behring's Straits, and reaches the ice, 241—Point Drew, and meeting with Esquimaux, 242passes Cape Bathurst, 243—and strikes north between Baring Island and Prince Albert Land, ib.—unable to pass into Barrow Strait on account of ice, 244—rounds Baring Island by the west, and is frozen into Mercy Bay, ib.; the "passage" discovered, 245 — but the *Investigator* abandoned.

-; his Arctic voyage and accomplishment of the North-West Passage, xxii. p. lxxii.; xxiii. pp. lxxviii., 129; xxv. 104, 195, 198; xxvi. p. ceviii.

Patron's awarded to, xxiv. pp. viii. lxxvii.

M'CONNELL.

McConnell, Mount, North-Eastern Australia, xxviii. 120.

McGowan, Dr., of Jerusalem, xxiv. 12, 13.

Macrinoros, Greece, xxvii. 13.

Macua Tribe, South-East Africa, xxx. 147.

Madan Arabs, xxvi. 141, 146, 148, 162.

Madaour, Darab, Persia, xxvii. 162.

Madara, Bulgaria, xxiv. 79.

Burma See Madeuc

Madden, Mount, West Australia, xxii.

Madege Madogo, East Africa, xxviii. 223; xxix. 71.

Makuba, East Africa, xxix.

Madeira, or Madera River, tributary of Amazons, xxiv. 264; xxv. 156; xxvi. 216.

Madeya, or Madara, north of Ava, xxvii. 93.

Madre de Dios, or Purus River, tributory of Amazons, xxv. 151 seqq.

Mæandrus Mountains of Ptolemy, xxvii. 54.

MAE-MAE-CHIN, Russo-Chinese Frontier, xxiv. 306.

MAEE, Aracan, xxvii. 75.

Magadoxo, East African Coast, xxix. 1, 49. See Makdishu.

Magaliesberg, or Cashan Mountains, Transvaal, xxiv. 288, 291; xxx. 239, 243, 245, 250.

Maganja Hills, Zambesi, xxvii. 376, 385.

MAGDALENA Cliffs, Spitzbergen, xxvi. 10.

Magellan, Straits of, *Enterprise* passes, xxv. 195.

Maghter, West Africa, Sandhill Zone, xxx. 114.

Magi placed by Marco Polo at Savé and Avé in Persia, xxv. 6.

Magic and Divination, East Africa, xxix. 344 seqq.

——, burning for, East Africa, xxix. 88.

Magnetic Rocks: South Africa, xxiv. 290—West Australia, xxvi. 212.

of, at Aden. By Captain S. B. Haines, xxiv. 225.

MAGNETICAL Island, North-East Australia, xxviii. 5.

Magnetshoek, Transvaal, xxii. 139.

Mago, Amur, xxviii. 435.

Magogoni, Zanzibar coast, xxix. 45, 70, 76.

MAKUA.

Magovsky stream of Amur, xxviii. 390, 398.

Magrasee River, in Monomoiese (Malagarazi in Unyamwezi) xxvi. 118.

Magugi, East African Lake Region, xxix. 283.

Maguire, Corporal, companion of Vogel, xxiv. 280, 281; xxvii. pp. clxii., clxiii.; notice of his death and services, xxviii. p. cxlii.

Magwé, Burma, xxvii. 77.

Magyar, Hungarian traveller in South Central Africa. See Ladislaus.

Mahalapi River, South Central Africa, xxvi. 87.

Mahamed family of Bedawin, xxiv. 219.

Mahamuni, celebrated pagoda in Aracan, xxiv. 96, 97-99.

Mahmadi, east of Persian Gulf, xxvii. 108.

Манмир Keni, Dobrudsha, xxvi. 209. Манодаму of San Domingo, xxiii. 279.

Mahomed Sennie tribe in Persia, xxvii. 111, 113, 116.

Mahomedabad, Yezd, Persia, xxv. 21. Mahomedanism, alleged traces of, among the Caffre tribes, near the

Limpopo, xxiv. 290. Maimachin River, Sea of Okhotsk, xxviii.

Maing-Maing, Shan State, xxvii. 98, 99, 107.

Tsin, Shan State, ib. 99.

Mainkhwon, North Burma, ib. 67. Mainleng-gyee, Shan State, ib. 58, 59,

Maizan, M., Murder of, inland from Zanzibar, xxix. 3, 93.

Maize in East Africa, xxix. 398. Majame, Kilimanjaro, xxx. 128.

Maji Yaweta, hot springs near the Kingani, East Africa, xxviii. 223.

Makalaka tribe, South Central Africa, xxvi. 97, 108.

MAKATA, East Africa, xxix. 111, 125. MAKATI Kaffres, xxx. 240.

Makdishu (Magadoxo), xxix. 1, 2, 31, 46, 49—ivory of, 443, 446.

MAKEREWA River, Otago, xxviii. 301.
MAKIMONI Lake Tangauvika xxiv

Makimoni, Lake Tanganyika, xxix. 248.

Makololo people, South Central Africa, xxii. 166, 168–171; xxiv. 292, 294, 297, 298, 300; xxvi. 96, 139; xxvii. 350.

Maksura (Thelsea), Antilibanus, xxvi.

Makua tribe, South Central Africa, xxiv. 268, 287.

MAKUA.

Makua, between Kano and Nyffe, Niger country, xxiv. 286.

M'AKUE River, Matebele country, xxvi.

Makumbara Mountains, East Africa, xxviii. 213.

Malacca, province of, xxv. p. cxv.

Malagarazi River, Lake Tanganyika, xxix. 27, 29, 30, 149, 165, 171, 185, 187, 190, 193, 194, 205–208, 213, 229, 231, 244, 258, 259, 264, 289, 307.

Malah, ancient city in Bashan, xxviii. 255.

Malaphi River, tributory of Limpopo,

South Africa, xxiv. 289.

Malaria about Lake Ngami, effects of, xxi. 20. See Fever.

Malaspina, Spanish surveyor, xxiii. 178. Malay; States tributory to Siam, xxvi. 72—race in Borneo, xxiii. 76.

Malays: their origin, and settlement in Borneo, xxiii. 18—their states in Borneo, ib.—always settle by a river, 82—occupy only the exterior of

Borneo, *ib*. Malaya Nadejda, Amur, xxviii. 380. Malcolm, Sir Charles, xxv. 136— Obit. Notice, xxii. p. lxix.

-, Point, West Australia, xxii. 20.

Malcom, Rev. Howard, xxvii. 84. Male giving suck, stories of, xxix. 91.

Malé, Burma, xxvii. 57, 70.

Malekabad, Kerman, Persia, xxv. 63. Malindi (Melinda of the Portuguese), xxix. 1, 46, 51.

Malkiyeh (Malkaia), ancient town East of Bashan, xxviii. 235.

Mallet, Robert, F.R.S., his views and memoirs' on earthquakes, xxix. p. clviii.—his catalogue of ditto, clx. his mission to scene of great earthquake in South Italy, clxi.

Maloiain River, Eastern Siberia, xxviii. 405.

Maloon, Burma, xxvii. 74.

Malopo River, Lake Ngami, xxii. 154. Malula on Antilibanus, one of three villages speaking Syriac, xxvi. 46,

Mambare tribe, South-West Central Africa, and their slave-trading, xxii. 170, 171; xxiv. 294, 297, 298; xxv. 90; xxvii. 357.

Mambu, name of Amur River, in language of Mangune tribe, xxviii. 388.

Mamina, South Peru, xxi. 105.

Mammalia. See Animals and Zoology. Mamochishane, daughter of the chief

MANIOC.

Schitsame, and female chieftain of Mantatees, xxii. 166.

Mampawa River and State, Borneo, xxiii. 70, 81.

Ma'muri, Dobrudsha, xxvi. 205.

Managua, Lake, Nicaragua, xxx. 58.

Manakalouwe, Bamangwato, South Central Africa, xxiv. 303.

Manao, or Barro do Rio Negro, city on Rio Negro, and capital of Amazonas Provice, xxiii. 214.

Manasarowar Lake, Tibet, xxi. 63, 64; xxiii. 10, 13, 28, 31, 39, 48, 61, 348.

Manchuria and Manchuris, xxviii. 376 et seqq. See Amur.

regard to, xxii. p. cxi.; vol. xxvii. p. clxi., lxii.

Mandama River, East Africa, xxix.

Mandarın fish, Chusan, xxiii. 249.

Mandi, section of the Wangarawas, called by Europeans Mandengoes, xxx. 117.

Mandengoes, ib., 116, 117.

Manegers, a people of Manchuria, xxviii. 379, 385, 397, 430, 443, 445.

Manga, people of Bornu, xxx. 120.

Mangando, South-Eastern Africa, xxx. 146.

Mangar, Manchuria, xxviii. 385, 395. Mangewa, Lake Region, East Africa, xxix, 278.

Mangrove trees: gigantic in Louisiade Islands, xxi. 15—in Darien, xxviii. 187—in San Domingo, xxiii. 276—in East Africa, xxix. 47.

Creek, North Australia, xxviii. 15.

Mangunes, Funguz tribe, on the Amur, xxviii. 387 et seqq.

Manguro, on Lake Tangana (Tanganyika), xxiv. 267, 268.

Mangyul, great subdivision of Nari, Tibet, xxiii. 4, 6-9, 11, 16, 21.

Manı, Pica, South Peru, xxi. 115.

Manica, gold fields and washing, south of Zambesi, xxvii. 379; xxx. 155

Manice River, Drakensberg, South-Eastern Africa, xxiv. 290.

Maninche, or Bashukulompo, River, reported tributary of Zambesi, xxii. 168, 171.

Manioc plant and flour, in South Central Africa, xxv. 226—alleged to furnish Revalenta Arabica (?), 230—various modes of use in East Africa, xxix. 401.

MANITOBA.

Manitoba, Lake, British North America, xxii. 179.

Manna gathered in Kerman, xxv. 65. Island, Dorey, MANSINARU New

Guinea, xxx. 172, 175. Manson Island, Baffin's Bay, xxiii.

Mantatees, people of, South Central Africa, xxii. 139, 165.

Manure in Chusan, xxiii. 261.

Manyeti, black tribe of Makololo country, xxii. 169.

Manzil, or day's journey in Arabia, xxv. 123.

Maoris of New Zealand, xxi. 27, 31 their language and Malay, comparative vocabulary of, xxviii. 330 their ovens, ib. 304.

Mapenda, South-Eastern Africa, xxx.

Mapham, Lake, Tibet, (Manasarowar). See Lake Mapham.

Mapcha River, Tibet, (Gogra), xxiii. 9, 21, 30, 35, 37—its affluents, 39, 44.

Maphé Myo, Burma, xxvii. 60, 61.

Maps and Charts, hints on, xxiv. 328, 351, 355.

Mapui River, Matebele, South Africa, xxvi. 100.

MAQUARACHIC, mining district, North-Western Mexico, xxx. 26.

(amalgamating works) MAQUINAS Copiapo, xxiii. 209.

Mar Jirjis Convent, Syria, xxiv. 33.

— Maron, excavated convent, Syria, xxiv. 32.

- Shurabin, near Damascus, xxvi. 46.

Mara, Jebel, near Darfur, xxiii. 120. -, a pagan country west, or southwest of Darfur, xxiii. 122.

Maraba ravine, Damascus, xxvi. 46. Marabazi, Mokkha, or Makua, South-Eastern Africa, xxiv. 287.

Maradi, Central Africa, xxx. 120.

Maranon River; source of, xxvi. 213, 215; xxx. 72. See Amazons.

Maranoa River, Central Australia,

xxii. 234-236, 258.

MARAR Ban (or prairie), Somal country, xxv. 141.

MARATHON; Commentary on battle of. See Jochmus, xxvii. 16—Leake's map of, xxvii, 31.

Marathona River, xxvii. 16.

Maravi, Lake Nyassa, xxvi. 120, 130.

people, South-Eastern Africa, xxvii. 384.

MARRIAGE.

MARAVIHA River, tributary of Rio Negro, xxiii. 213.

Marcet Island, Arctic Sea, xxii. 84.

March of East African caravan, xxix. 413.

MARCIANUS ofHeraclea mentions Appadan, or I. Abadan, in Euphrates, xxvii. 188.

MARCILINO Volcano, San Salvador, xxviii. 357.

Marco Botzaris, xxvii. 15.

Mardali River, Eastern Siberia, xxviii.

Marea River, Darien gold-mine, xxiii. 190.

Marenga Mk'hali, a stream and station on Lake Route, East Africa, xxix. 27, 116–118, 129, 139, 145–147, 148, 155, 156, 418.

Marghi, people of Bornu, xxx. 121. Mari, Nepalese term for valleys at base of Himalya, xxi. 60.

Marianas Islands, currents at, xxiii. 228.

Mariano, Luigi, in 17th century, names a central sea in Africa, xxix. 233.

Mariinsk, Amur, xxviii. 388, 391, 437. Marina, defile of Laconia, xxvii. 52.

Marine surveys. See Coast Surveys. Mariqua River, tributary of Limpopo, South Africa, xxiv. 289.

Marinpol, Sea of Azov, xxvii. 146. MARMORE River, Bolivia, xxiv. 263.

MARK Vley, South Africa, xxviii. 162. MARKHAM, CLEMENTS R., on the Sources of the Purus, one of the principal Tributaries of the Amazons, xxv. 151 —project of journey, 151—enter the Montana or tropical valleys east of Andes; the Chirimayu River; a tapir, 153—San Miguel, the last of civilization, 153—coca crops, 154-India-rubber collection; the Chunchos or aborigines, 155—Father Revello's explorations; expeditions of Don M. Ugalde and of Lieut. Gibbon, 156frequent murders by Indians; distant view of the Madre de Dios River, or Purus; particulars known of this river, 157—results to be expected from developed knowledge of that river as a communication with the Old World.

Markovcha, Balkan, xxiv. 77. Maroa, on Rio Negro, xxiii. 215. Marora, East Africa, xxiv. 268.

Maroro, place and river, apparently same as Marora, xxiv. 37, 105, 124, 127, 128, 300, 306, 307, 441.

MARRIAGE customs; in Borneo, xxiii.

MARRAH.

80—in Zanzibar, xxiii. 107—of Jimma, East Africa, xxv. 210—of Wazaramo, East Africa, xxix. 92 of East African tribes generally, xxix. 333.

Marrah Valley, Sinai Peninsula, xxv. 276.

Martin, Montgomery, his relief map of India, xxv. p. exii.

---, General Francisco, Memoir on Atrato quoted, xxiii. 192. Marundu, East Africa, xxix. 124.

Marungu, district and river at south end of Lake Tanganyika, xxix. 95, 180, 221, 229, 235, 240, 246, 253, 256 seqq., 305. Mary River, Darien, xxvi. 180.

Maryul, great subdivision of Nari, Tibet, xxiii. 4, 5, 8, 9, 11, 12 — meaning, 13; 21, 22, 29, 35,

Maryum La, Pass between West and Central Tibet, xxiii. 10, 13, 27, 37, 39, 48.

Masa tribe, Negroland, xxx. 122.

Masada, Dead Sea, xxvi. 59, 65. Masai, East Africa, xxviii. 199, 202-204, 207, 211, 284 — tribes, xxix. 164, 427. See also *Umasai*, *Wa*-

Masenga, Unyamwezi, xxix. 192.

Masenge, Unyamwezi, xxix. 187.

Mashkuk, old town in Bashan, xxviii.

Mashona gold-washing, Zambesi, xxvii. 379—people, xxvi. 96, 108.

Mashur, north of Persian Gulf, xxvii.

Masika, monsoon or great rains, East Africa, xxix. 13, 17, 36, 37, 105, 106, 141, 285.

Masina, tribe of Mandingoes, xxx.

Masindi Lake, East Africa, xxviii. 213.

Maskat, Imam or Sultan of, xxiii. 101 —his authority in Africa, 104—his possessions, 105, 106—government, 108; xxix. 4, 11, 18, 19, 58. See Sayyid Said,

-: trades that are looked down upon at, xxix. 312—exports to, from East Africa, 400—stuffs made or dyed at, 430, 432—rhinoceros horns carved at, 445—durability of timber at, 447.

Masoe River, South Central Africa, xxvi. 108.

Mason Island, Yangtsekiang, xxx. 77.

MATSESHAN.

Masoya Lake, Nicaragua, xxx. 58. Massalit, people adjoining, Darfur, xxiii. 120.

Massangano, Zambesi, xxx. 159.

Massappa, South of Zambesi, xxx. 155.

Massomedes, Mossamedes, or Little Fish Bay, South-Western Africa, xxii. 155; and see Macqueen, xxx. 161.

Massowa, Red Sea, xxv. 218.

Masuasi-se, county and tribe, South Africa, xxii. 139; xxvi. 108. Masuquana River, tributary of Lim-

popo, xxiv. 289.

Maszisikiutu, Bihć, Central Africa, xxiv. 272.

Matai Mati, Fiji, xxvii. 240.

——— Mbau, Fiji, *ib.* 258. Matan River and State, Borneo, xxiii. 70, 81—Rajah's large diamond, ib. 74.

MATAURA River and Plains, New Zealand, xxi. 25, 26, 35; xxviii. 307.

MATCHOUSIN, Vancouver's Island, xxvii.

Matebelé, Matibele, people, South Africa, xxii. 168, and see Moffat, xxvi. 84 seq.

MATELLE District, Ceylon, xxvii. 334,

Matene, Negroland, xxiv. 286.

Matenich, Balkan, xxiv. 74.

Matheson Island, Arctic Sea, xxv.

MATIAMVO, or Muata ya Nvo, South Central African chief in Londa, xxv. p. exvi., 222, 228, 231, 235; xxvi. p. cexiv., 81, 117, 121, 122, 123, 125, 126; xxvii. 349, 353, 351, 373; xxix. 255; xxx. 151.

Matilla, Pica, Southern Peru, xxi.

Mationa River, country and Caffres, Lake Ngami, xxii. 155, 156, 158. Matlokotloko, town of Moselekatse,

South Central Africa, xxvi. 93, 96, 101, 103, 105.

Matlomaganyana, or Links, springs near Ngami, xxii. 164.

Matoney River, East Africa, xxvi. 118, 119.

Matoong River, Burma, xxvii. 76. Matoongshan, Yangtsekiang, xxx. 85. Matris, Oasis in Sahra, xxii. 135.

Matsa, district of Nari in Tibet, xxiii. 12, 16.

MATSANYANA tribe, north of Lake Ngami, xxv. 90.

MATSESHAN Mountains, Yangtsekiang, xxx. 86.

MATTABONG.

Mattabong, Cambodia, xxx. 179, 180. See Battabong.

MATTENDO River, South Central Africa, xxx. 140.

MATTOL River, Delagoa Bay, xxiv. 290.

Matwapa Creek, East Africa, xxviii. 192.

Maubal, South-Western Africa, xxx. 161.

Maule River, Chili, xxvi. 210.

Mauque, Southern Peru, xxi. 120.

Mauritius; steamer lines to, xxvi. 187, 188—Livingstone at, xxvii. 386,

Mauroya, Burma, xxvii. 70. Maurwi, East Africa, xxviii. 211.

Maury, Lieut.; his investigations of trade winds and currents, xxi. p. xci.—his exertions to get marine observations systematised, xxiii. p. cxxxiii.—on extraordinary clipper voyages, xxiii. 240—his Sailing Directions, xxiv. p. c.

Mayro Burnu (Black Cape), xxiv. 58. Mawbey, Lieut.-General; Obit. Notice,

xxi. p. lviii.

Mawiti, Unyamwezi, xxix. 180.

MAWKAK, Shammar town in Arabia, xxiv. 194, 205, 206.

Maximianopolis, Palestine, xxiv. 9.

MAXITO, South-Eastern Africa, xxx. 145.

MAY, DANIEL, R.N.; Journey in Yoruba and Nupe countries in 1858, xxx. 212; Fangan on the Kworra to Ilorin; Ogbawmoshaw; Ejebo; official called Ajele; Iwo, 213—remarkable chief's house; preponderance of women; Obba River; reach Ibadan; one object of the journey; Oshun River, 214—Agborn; Ifé, or Modakake, 215—enter Ijesha, 216—Ilesha, 217—interview with the chief, 218—Oshun River, 219—ferried in a calabash; Oshogbo; Abajo, 220— Ila, 221—Awton, 223—Eshon; Mount Rokoko, 225—Egbe; enter Nupe; Ejeba, 226—Agboro, 227— town of Ladi, 228—and reach the Kworra opposite Tsua or Shaw; set out for Rabbah by land, 229— Nagi; Laboshi; Kudan, 230—Rabba; summary of the journey, 230—good treatment, 231—necessity for presents,

Maya, Sea of Okhotsk, xxviii. 403.

Mayeng, Aracan, xxiv. 108.

Maymaga, Camina, Southern Peru, xxi. 118.

MEDALS.

MAYO, or Isa River, Niger in Sudan, xxiv. 283, 284.

- River, North-Western Mexico, xxx. 27.

Mayos tribe, North-Western Mexico, xxx. 12.

Mazaro, South-Eastern Africa, xxx.

MAZATLAN, North-Western Mexico, xxx, 1, 3, 15, 31, 39, 43-45, 47.

MAZAVAMBA, South Central Africa, xxvi. 112.

Mazavios River, South of Zambesi, xxx.

Mazigh, or Berbers, xxx. 115, 116.

Maziri Island, Pangani Bay, East Africa, xxviii. 201, 202.

Mazita, Lake Nyanza, xxix. 274.

MBANGALA tribe, inland from Loanda, xxv. 226.

MBARA Hills, East Africa, xxviii. 213. MBAU, capital of Fiji, xxvii. 232, 233.

Mbhali, Unyamwezi, xxix. 191.

Мвоамал, or Mbuamaji, Zanzibar coast, xxviii. 222; xxix. 45, 56, 66, 70, 71, 88, 96, 186, 301, 312—copal diggings of, 436, 439.

Mbuggilevu Mountains, Fiji, xxvii.

243, 245.

Mbumi, East Africa, xxix. 112, 113.

Mbwiga, East Africa, xxix. 124.

MDABURU, Lake route, East Africa, xxix. 154–156, 158, 160.

MDIMU River, East Africa, xxix. 76.

Meaday, Burma, xxvii. 77.

Meander, visit of H.M.S., to Tongatabu, xxii. 97, 98.

Mecca, a journey to, from El Medina, down the Darb-el-Sharki, or Eastern Road (hitherto unvisited by Europeans), in 1853. By Lieut. RICHARD F. Burton, Bombay army, xxv. 121.

- pilgrimage performed by Dr. Wallin, xxiv. 206.

Mecham, Commander George Obit. Notice, xxix. p. cxxxiii.

MECHOACAN Province, Mexico, xxx.

Medals, presentation of, by the Society. 1852, to Dr. Rae (Founder's), and Captain H. Strachey (Patron's), xxii. pp. viii., lxi.
1853, to F. Galton (Founder's), xxiii. pp. ix., lviii., and Commander Inglefield (Patron's), ix. lix.
1854, to Admiral W. H. Smyth

(Founder's), xxiv. pp. viii., lxxvi., and Captain R. J. M'Clure (Patron's), viii., lxxvii.

MEDALS.

1855, to Dr. Livingstone (Patron's),

xxv. pp. viii., lxxvi. 1856, to Dr. E. K. Kane (Founder's), xxvi. pp. viii., clxvi., and Dr. Barth

(Patron's), viii., clxviii. 1857, to A. C. Gregory (Founder's), xxvii. pp. viii., lxxxv., and Colonel A. Scott Waugh (Patron's), viii., xc.

1858, to Capt. Collinson (Founder's),

xxviii. pp. v., cxx., and Professor Bache (Patron's), v., cxvii.

1859, to Captain R. F. Burton (Founder's), xxix. pp. viii., xcv., clxxix., and to Captain John Palliser (Patron's), viii., xcvii.,

1860, to Lady Franklin (Founder's), xxx. pp. vii., xciv., xcvii., and to Captain Sir F. L. M'Clintock (Patron's), vii., xcv., xcix.

MEDALS presented by Geographical

Society of Paris to Captain M'Clure, Captain Inglefield, and Mr. F. Galton, xxv. p. xcviii.

Medanos, moving sandhills in Southern Peru, xxi. 101.

Medical practice among Bedawins. See Wallin, xxv. 283 seq.

MEDICINE River, British North America, xxx., 282, 287.

MEDINA, JOURNEY to, with Route from Yambu. By Lieut. R. Burton, xxiv.

-, Journey from, to Mecca, down the Darb-el-Sharki, or Eastern Road. By the same, xxv. 121.

- and Mecca, Narrative of a Journey from Cairo to, by Suez, Araba, Tawila, Al Jauf, Jubbé, Hail and Nejd, in 1845. By Dr. G. A. WALLIN, XXIV. 115.

-, four roads between, xxiv. 210.

--; xxiv. 173—first view of, xxiv. 224. See *Burton*, xxv. 121.

Mediterranean Surveys. See Coast Surveys.

- deep-sea soundings, xxvii. pp. exxiv., exxv.

Меек, Sir James; Obit. Notice, xxvii. p. cxi.

- Point, Arctic Sea, xxv. 199. Meekhyoung, Aracan, xxiv. 103. Megalo Kastro in Cretc, xxiv. 238. Megiddo, battle-field and site of, xxiv. 9. Megolle Ella, Ceylon, xxvii. 340. Meidinger on Navigable Rivers of Germany, xxv. p. cx.

Meiling Pass, north of Canton, xxviii.

291.

MERIDIAN.

Meiron, Synagogue at, Northern Palestine, xxiv. 5, 23.

Meis, Galilee, xxiv. 23.

Mejdel, Palestine, xxiv. 18.

—— Yaba, Palestine, xxiv. 11.

— Anjar, Cœlc Syria, ib. 30. Mejeimar, old town in Bashan, xxviii. 246, 247.

Mejillones, guano site, Atacama, xxv. 160.

Meklong River, Siam, xxvi. 75, 76.

Mekong, Mekhong, Great River of Cambodia, xxvi. 73, 74; xxvii. 55, 56, 59, 64, 88–100, 102, 105; xxx. 182, 184.

Melbourne, steam communication with, xxvi. 187.

Meligon, Laconia, xxvii. 43, 46. Mellado mines, Mexico, xxx. 50.

Melle, Central Africa, xxx. 117.

Melon-holes, Australia, xxii. 23. Melon River, South Africa, xxii. 139.

Melos, ancient, in Milo, xxii. 226.

Melvill van Carnbee, Baron; Obit.

Notice, xxx. p. cxviii—his maps of the Indian Archipelago, xxx. 175.

Melville, Viscount; Obit. Notice, xxii. p. lxvi.

- Island, Arctic Sea; abundant animal life, xxii. 120—supposed to be seen from Collinson's ship, xxv. 198, 199.

- Sound, Arctic Sea, xxv. 198-Franklin supposed ice-bound in, xxvi.

- Bay, Baffin's Bay, xxiii. 138; xxvi. 1, 16.

Мемвоо, Burma, xxvii. 60, 61.

MENAM River, Siam, xxvi. 71, 74, 76-78; xxvii. 104.

Mendieta silver mine, Tarapaca, xxvi.

Mendoon, Pegu, xxvii. 75.

Menelaion, temple near Sparta, xxvii.

Menin, Anti-Libanus, xxvi. 46.

Menoge River, tributary of Arve, xxvii. 225, 230.

Menschikoff Island, Sea of Aral, xxiii.

Mepon River, Shan country, xxvii. 94.

MERATHA, race of the Sahra, xxi. 167. Mercy, Bay of, Baring Island, M'Clure's refuge where the *Investigator* was

left, xxiv. 244. Merdabad, Yczd, Persia, xxv. 20.

Mereke, Balkan, xxiv. 76.

Mergen, Manchuria, xxviii. 408.

Meridian, first geographical, xxiii. 96.

MERIVALE.

Merivale, Mount, Western Australia, xxii. 23.

Merj 'Ayun, Syria, xxiv. 25.

- Sheikh Yafury, Syria, ib. 26.

Mermaid Reef, North Australia, xxviii.

Mesas of Atacama mines, xxiii. 200.

Mesembria. See Misevria.

Mesene, Euphrates Delta, xxvii. 188.

Meshhed 'Ali Arabia, xxiv. 171—called Mesjid Ali, xxx. 204.

Meske, Caucasus, xxi. 2, 7.

Meskin District, Kerman, Persia, xxv.

Mesoka, Mozambique coast, xxiv. 287. Mesopotamia, Lower, xxvi. 131 seqq.

Mesratah tribe of the Sahra, xxi. 143. Messara, Crete, xxiv. 238.

Mestizos, or Castas of Peru, xxvi. 218.

Mesur, Amur, xxviii. 440.

Mета Incognita, Davis Straits, xxiii.

METALLIC boats, xxvii. p. cxliii.

Metapa, Ætolia, xxvii. 34.

Metaparu Ranges, San Salvador, xxviii. 350 seqq.

Metarga, xxvii. 6.

METEORIC iron of Atacama, xxi. 127,

128; xxv. 166, 171.

METEOROLOGICAL; Tables of country between Black Sea and Caspian, xxi. 11, 12—journal kept at Alexandria by Hugh Thurburn, xxii. 128—journal of Kennedy's Australian expedition, xxii. 272—observatory at Arailsk, on Sea of Aral, xxiii. 100—observations in South Otago, xxviii. 329—department of Board of Trade, xxx. p. cxlv. - and other observations

during passage to Algoa Bay. By Dr. P. C. Sutherland, xxv. 256.

Meteorology of Himalya, xxi. 69—work connected with, xxii. p. lxxxix. —progress of, xxix. p. clv.

Meto Mokkua country, East Africa, xxiv. 287.

Mетнуе Lake, River, and Portage, British North America, ххіі. 183, 184, 186, 188.

METING River, in Shan country, xxvii.

Meuta Mountains, China, xxviii. 290. Mexican boundary survey (U.S.), xxiii. p. cxx.; vol. xxv. p. cxxvi.; vol. xxix.

p. ccvi. Mexico, Journey to. By Charles Sevin,

-, Excursion to an ancient Vol-CANO in. By HENRY DE LA SAUSSIERE, xxx. 53.

MILO.

Mexico, city, xxx. 48.

MEYBUT, between Ispahan and Yezd, xxv. 18.

MEYER, Gerold; Obit. Notice, xxix.

p. cxiv.

Mezraeh, term explained (Persian), xxv. 14.

Mezzeh, Syria, xxiv. 28.

Mfuto, Unyamwezi, xxix. 180, 186, 194, 195, 407.

Mganga, magician or medicine man of the East African tribes, xxix. 95, 344,

Mgazi River, East Africa, xxix. 73, 74, 77, 78.

МGETA River, Fingani, East Africa, xxviii. 223; xxix. 27, 29, 58, 59, 61, 71–74, 81, 82, 96, 107, 108, 205,

Mgogwa, East African Lake Region, xxix. 267.

Mgongo Thembo, Lake route, East Africa, xxix. 158.

MGUNDA Mkhali, Lake route, East Africa, xxix. 27, 139, 140, 153, 155-157, 165, 178, 195, 418, 441.

MHINANI, Pangani River, East Africa, xxviii. 200.

MIAMBAR Mountains, Honduras, XXX. 60, 62.

MICHAELOWSKI Redoubt, Norton Sound, xxv. 196.

MICHELOT, M. A., Obit. Notice of, xxv. p. xciv.

MIDDLE Ages, geography of the, xxi. p. lxxi.

- Island, New Zealand, Survey of southern part of. By Capt. J. Lort Stokes, R.N., xxi. 25.

MIGUEL River, North-West Mexico, xxx. 17, 19.

Mihailovsk, Amur, xxviii. 435.

Mihsir, Palestine, xxiv. 12.

Mikiziwa, reported lake near Tanganyika, xxix. 255.
Milford Sound, Otago, xxviii. 321.

MILK, food of East Africans, xxix. 365.

MILLA de Sta. Ella, Don Manuel, his journeys in Darien, xxiii. 176—across the Isthmus, xxvii. 197.

MILLER, General, cited, xxv. 158.

Millet, in Chusan, xxiii. 253—in East Africa, xxix. 397.

MILL-STONE quarries at Milo, xxii. 215,

MILNE, Mr., botanist of the Herald, xxvii. 232.

— Island, Baffin's Bay, xxiii. 140. MILO, ANTI-MILO, KIMOLO, and POLINO, Some account of the volcanic group

MILTIADES.

of. By Lieut. E. M. LEYCESTER, R.N., xxii. 201.

Miltiades, xxvii. 21. Mimbo, or Uimbu, East Africa, xxiv.

Min, or Wei River, China, xxviii. 289. Mindano produces teak, xxiii. 75.

MINDE Boghaz, Balkan, xxiv. 68.

Mines of Copiapo. See Silver Mines; also Lloyd, xxiii. 196.

-, gold and silver. See paper by

Bollaert in xxi. passim.
—, diamond, in Borneo, xxiii. 73. — of Mexico, remarks on causes of

English failure in, xxx. 49. MINERAL products of Milo, xxii. 222. —— wealth of Tarapaea, xxi. 106

seqq.

—— of northern regions of British America, xxii. 184, 189. of Borneo, xxiii. 72.

— of Ataeama, or Copiapo,

xxiii. 197.

— of Namaqua Land, xxv.

103. MINETONASS Hill, British North Ameriea, xxx. 310.

Ming Dynasty took refuge in Chusan, xxiii. 243.

Mingrelia, climate of, xxi. 7.

Miniana Wassulo, Niger, xxx. 118.

Minnery Tank, Ceylon, xxvii. 330, 331, 333-335, 341, 346, &e.

MINT of Culiacan, Mexico, xxx. 11. MIR Izzet Ullah's Travels in Turkestan,

&c., xxviii. p. clxxxiv.

MIRA River, Ecuador, xxx. 69.

MIRAGE, in South Peru, xxi. 112-in Salt Plain, xxv. 66—on Sea of Siwash, xxvii. 138.

MISAN, Kerkh, and Ferat, cities on Lower Euphrates, and their position, xxvii. 187 seqq.

MISERY Plain, New South Wales, xxii.

270.

MISEVRIA (Mesembria), xxiv. 47, 49, 51. Missions, Roman Catholic, in Siam, xxvi. 71—at Lake St. Ann, British North America, xxx. 280, 309.

——–, Bechuana, xxi. 21.

—— at Walfisch Bay, xxii. 142.

—, effect of, on savages, xxiv. 293. —— in Yoruba, xxx. 214, 217, 230, 231, 233.

Missionaries at Tonga, and their school. xxii. 100.

-, American, at Beirut, xxiv. 1.

———, Protestant, in Siam, their Observations, xxvi. 71, 73, 74.

MOESTA.

Missionaries at Zanzibar, their geographieal observations, xxvi. 116. See also Mombas Mission.

--, Remarks on Protestant and Catholic, in New Guinea and the Indian Archipelago, &c., xxx. 175,

Missolonghi, exaggerations about defence of, xxvii. 26.

Mistra, Morea, xxvii. 35.

MITCHELL, Mr. See Amur River, &c., xxviii. 376.

MITCHELL, Sir T. L., xxii. 228, 229, 232 seq.—eited, xxvi. 185—Obit. Notice of, xxvi. p. elxxx.

----, Comm., On the Island of

Ruatan, xxi. p. xeiii.

and Dashwood's expedition on Middle Island, New Zealand, xxi.

· Harbour, Queen Charlotte Island, xxiv. 219.

Mitshi, peculiar tribe on Chadda River, xxv. 114.

Mizra'ah, near the Nahr-el-Kelb, Syria, xxiv. 35.

Mizrakji Khan, Baghdad, xxvi. 152.

Mkomafi River, East Africa, xxviii. 213.

Mtuwwa, Lake Tanganyika, xxix. 250. Moa (bird), New Zealand, bones of, and alleged recent existence, xxviii. 310, 321.

Moab, land of, xxviii. 230.

Mobye, Shan State, xxvii. 95. Mocarangas of old geographers, East. Africa, xxix. 214, 215.

Mocha, Sibaya, South Peru, xxi. 116.

Mocha, Ecuador, xxx. 66.

Mococotas, or Makololos (q. v.), xxvi. 129.

Mocorito, North-West Mexico, xxx. 13. Modain, Golden Pagoda, Burma, xxvii.

Modakake, Yoruba, xxx. 215-16.

Modera, M., On New Guinea, alluded to, xxi. 18.

Moesta, Carlos (Director of Observatory, Santiago). Observations relative to Geographical Position of west eoast of South America, xxviii. 333 longitudes of Callao and Valparaiso critical; difference of Santiago and Valparaiso by electric telegraph; coast placed too far west, 334—determination of Callao and Valparaiso by Humboldt, King, Fitzroy, Stokes, and Beechy, 335—of Lima, by Scholtz and Gallo; correction from authors' observations, 336.

MOFFATT.

MOFFATT, REV. ROBERT, Visit to Mo-SELEKATSÉ, king of the Matebelé, xxvi. 84.

Journal.—Lions, 85—verge of the Kalahari desert; adjutant; Bamanguato Hills; shoshong of King Sekhomi, 86—Mahalapi River, 87; the Tsetsé; the Serulé River, 88; Shashé River, 89—reach Moselekatse's subjects, 90—Matebelé women, 91—singular granite blocks, 92—watershed between Limpopo and Zambesi, 93 reach Moselekatse's town, Matlokotloko, ib.—the chief, changed and much affected, 94—captive Griquas; extent of Moselekatse's dominions, 95 -the Tsetsé; the Mashona, a peculiar race; conversations with Moselekatse, 97—his daughters, 98—he gives Moffatt leave to start, and starts with him; the Mapui River, 100—vast numbers of animals, 101—the goods sent off for Livingstone to Linyanti by help of the chief, 103—return; the Kame River, lions, hippopotamuses, crocodiles, 104—loyalty of a sick old chief, 105—leave-taking of Moselekatse, 107—missionary prospects in those regions, ib.—enmity of the Boers; remarks on the Matebele and their country, 108—postscript regarding route sketches, 109.

p. cexiv.

- Robert (jun.), Government surveyor of the Cape, Journey from Colesberg to Steinkopf in LITTLE NAMAQUA LAND, XXVIII. 153—circumstances of journey, 154—start from Colesberg; desertion of servants; Honig Kraal, 155—Great Brak or Ongar River; Doornberg Fontein; last European farm; fear of the Bushmen, 156—Bull Fontein, 157—obliged to change route, 159—Jackal Water, 161—and so across westward by the south of Great Bushmanland to the settled country about Lily Fontein, 167—then north-east through Little Bushmanland, 168—to Pella, near the Orange River, 170—descend parallel to Orange River to Henkries, 172—Steinkop mission; Komaggas mission, 173.

Namaqualand eastward along the Orange River, xxviii. 174—determination to map the Orange River country, 174—leave Gams near Pella;

MOMBEKINE.

strike the river; old mission station at Africaner's kraal, 175 — great waterfall, 176—abandoned mission of Bethesda, 177 — Uisip, 178 — reach Kuruman, 178 — nature of observations made; physical structure of country.

Moffatt, Robert (jun.); his survey of

Orange River, xxviii. p. cciv.

Mofo, Lake, South Central Africa, xxx. 154.

Moganguelas, South-East of Benguela, xxvi. 129.

Mogortu, Russo-Mongol Frontier, xxviii. 412.

Mogoung, North Burma, xxvii. 55, 56, 66, 88.

Moнogwé, East Africa, xxix. 68.

Mohammed, his dealings with Al-Jauf, xxiv. 153-5.

Gragne, East Africa, xxv. 144.

Mohammedabad, Persia, near Yezd, xxv. 19.

Mohamrah, and its vicinity, Notes on, by Col. Sir H. Rawlinson, xxvii. 186; xxvi. 148, 153; xxvii. 109.

xxvi. 148, 153; xxvii. 109.

Moisa, or Movisa, Tribe near South
Nyassa, xxv. 90; xxvi. 113; xxix.
166, 167, 443, 444; xxx. 149. See
Biça, Babiça, Wabisa.

Moist Atmosphere, warming effect of a,

xxvii. 212.

Moisture, Observations of, in Ladakh and Western Tibet, xxiii. 65.

Mokmé, Shan State, xxvii. 55, 95.

Molesworth, Sir W., Obit. Notice, xxvi. p. clxxxi.

Moli, meaning of the word, East African Arabic, xxix. 30.

—— vei Tala, Fiji, xxvii. 256.

Molua, Moluana, Moluane, South Central Africa, xxvi. 123; xxx. 149.

Molyneux, Lieut. R.N., Observations on Dead Sea referred to, xxiii. 171.

River, New Zealand, xxi. 26.

——— Bay, Otago, xxviii. 312.

Mombasa, A coasting journey from, to the Pangani River; visit to Sultan Kimwere; and progress of the expedition into the interior. By Captains R. F. Burton and J. H. Speke, xxviii. 188.

Момвая, Mombasa, ххііі. 105,106; ххvііі. 192 seqq.; ххіх. 12; ххх. 139.

——— Mission, xxiii. 105 seqq.; xxxviii. 193, 196, 205; xxix. 343.

Map, xxviii. 196; xxix. 3, 31, 42, 74; 233, 299, 244, 250, 251, 259, 272, 308.

MOMBERINE.

Mombekine, West Australia, xxvi. 253. Momeit, Shan State, xxvii. 98.

Momien, Yunan, xxvii. 70. Mon, Mongul, Tibetan names of Indian Himalya and its people, xxiii. 2.

Reef, North Australia, MONARCH xxviii. 9.

Monastir, Boghaz, Bulgaria, xxiv. 67. Koi, Balkan, ib. 52.

Moncagua, San Salvador, xxviii. 357. Moné, Shan State, xxvii. 55, 59, 90, 95, 102.

Mongalei River, Amur, xxviii. 425. Mongolian frontier of Russia, xxviii.

411 seqq.Mongoose, in East Africa, xxix. 75.

Monkey, Fishing, Aracan, xxiv. 90. - skins, Lake Tanganyika, xxix. 245.

Monks of Sinai, xxv. 275.

Monomoezi, -ese, emugi, &c., xxiv. 268; xxvi. 117, 119, 122—explanation of the name and its proper form, xxix.166-7.

Monomotapa and its so-called Emperor, xxvi. 112, 117; xxvii. 383, 384; xxx. 154.

Monsoons; see Hopkins, xxviii. 362, 369 seqq.—in Borneo, xxiii. 71—as affecting Red Sea, xxiv. 231—in Western Texas, xxvi. 167—in East Central Africa, xxix. 171, 206.

Monstrous people in Cuba, reported to

Columbus, xxvi. 198.
Mont Joly, Upper Savoy, xxv. 187.
Montagu, Major H. Seymour, Obit.

Notice, xxix. p. cxxx. Montaña, or Tropical Valleys East of xxiii. 270.

Montanero River, East Africa, xxvi.

Montaya, North-West Mexico, xxx. 16. Montechristi, San Domingo, xxiii. 270. Montefik Arabs. See Muntafik.

Monteiro's Travels in South Central Africa; see Macqueen, xxvi. 109, 111,

113, 114, 120, 122.

Monteith, Lieut.-Gen. W., Notes on routes from Bushire to Shiraz, xxvii. 108—route followed from Bushire to Bussorah, 108—ascent of the Karún, 109-attack of Arabs; Ahwaz, 110, and its remains; mustering the band; Dizful, 111—ruins of Susa; robbers and lions; return to Shuster and march towards Shiraz; attack of robbers, 112—ruins of Ram Hormuz; Babahan, 113—Nadir Shah Pass (forced by Alexander); Shiraz, 114.

MOPANE.

Passes between Bushire and Shiraz: Islands of Karak and Korgo, 114—Bushire; Dalki, 115—Pass of Kotul Malu; Kotul Kamard; Turkun, 116 —Kazerún, European vegetation; Tribes of Mahomed Sennie, Lack, and Lur; Kotul Dokhter, 117—Kotal Zun, ib.—Khan Zeman; Shiraz, 118 -decay of the city; Pass of Turkúm towards Persepolis, 119. Another road from Bushire to Shiraz, by Firuzabad, ib.—distances on both lines.

Monterde Silver Mines, Northern

Mexico, xxx. 31.

Montes Claros; see El Fuerte, xxx. 17. Montpereux, F. du B. de, Obit. Notice, xxi. p. lxi.

Montreal Island, Arctic America, xxv. 251; xxvi. 18, 21; xxvii. 322 seqq.

Montresor, General (Russian), xxiv. 60, 61, 63.

Monuments, curious, on the Lower Amur, xxviii. 389.

Moo River, Burma, xxvii. 73.

Moor River, and Dorp, South Africa, xxx. 233, 241-243.

Mookan Lake, Yangtsekiang, xxx. 83. Moomins River, Central Australia, xxii. 232.

Moon, traces of old worship of, among Moslem, xxix. 342.

——, mountains of the, xxx. 115, 135. ——, land of the, xxix. 167, 168 seqq. Moonganoo, Oya River, Ceylon, xxvii.

Mooni River, Central Australia, xxii. 233.

Moors, Indian Archipelago, xxiii. 72. Moorcroft, xxi. 63—his information and surveys, xxiii. 6, 38, 47.

MOORDENAAR'S Werf, South Africa,

xxviii. 165.

Moore and Beke, their discovery of Dead Sea depression, xxiii. 170, 171. Moore's Great Circle Indicator, xxiii.

p. exxx.

Moore River, West Australia, xxii. 59, 71.

— Lake, West Australia, xxvi. 268. ——Bay, Aretic Sea, xxii. 84.

Moorish Tribes mixed with Berbers, xxx. 117.

Moorson, Capt. W., R. N., Obit. Notice, xxx. p. exix.

Moose River, South Africa, xxii. 139. - Hill, British North America, xxx. 310. See Mount.

MOPANE Tree and its insect, used as food, Lake Ngami, xxii. 164.

MOQUEGUA.

Moquegua, Peru, xxvi. 211, 220, 228. Moraines, Ancient, in Tibet, xxi. 72; xxiii. 52.

Morambula Mountains, Zambesi, xxx.

Mord Spruit (Murder Brook), Natal, xxx. 233.

Moreau de Jonnès, his list of hurricanes, xxv. 292.

Morelos, North-West Mexico, xxx. 36. Moreno Bay, Atacama, xxv. 159.

Moresby's Chart of Red Sea, xxiv.

-, Capt. F., survey of Zanzibar, xxix. 2.

- Range, West Australia, xxii. 69.

Moreton Bay, xxvi. 185; xxviii. 1, 2, 5. - Island, Queensland, xxviii.

1 seqq. Moron, Laconia, xxvii. 52.

Morongoze Stream, Zambesi, xxvii. 378.

Morono, Amazons Feeder, xxvi. 216. Moropoa Empire, South Central Africa, xxvi. 123.

Morosuro River, South Central Africa, xxx. 154.

Morra Oya River, Ceylon, xxvii. 332. Morro Gordo, Samana, San Domingo, xxiii. 274.

– Hill coal, Chilé, xxv. 173. – Jorje, Atacama, xxi. 127.

Morti River, Darien, xxvii. 194, 199, 202.

Mortlock River, West Australia, xxvi. 235.

Mosaeus River (Khor Musa, mouth of Karun), xxvii. 126.

Moselekatse, king of the Matebele. Visit to, by Rev. R. Moffatt, xxvi. 84.

, his raids on the Makololo, xxii. 168; xxiv. 290; xxx.

Moses, Wells of, xxv. 263. —, Springs of, *ib.* 270.

Moshoma Tree, Lake Ngami, xxv. 87. Mosi Tribe, Negroland, xxx. 122.

Mosioatunya ("smoke-sounding"), or the Victoria Falls on the Zambesi, xxii. 168; xxiv. 295, 297, 304; xxvii. 358, 359, 362, 375. Mosquito Flat, North Australia, xxviii.

22.

Motions of Glaciers in Himalaya measured, xxi. 71.

Motito, South Africa, xxviii. 183.

Motlotse River, Matebele country, xxvi. 89.

Moturiki, Fiji, xxvii. 232.

MOUNT.

Mound Spring, North Australia, xxviii.

Mount Allen, Chadda River, xxv. 113. - Balfour, Rocky Mountains, xxx. 300.

- Ball, Rocky Mountains, xxx. 298.

- Beecroft, Chadda River, xxv.

115. - Bland, West Australia, xxii.

34. - Boubastis, Acarnania, xxvii. 5.

- Brown, Rocky Mountains, xxx. 295.

- Carmel, xxiv. 9.

-, Cascade, Rocky Mountains, xxx. 297.

-, Castle, Rocky Mountains, ibid. - Charles, West Australia, xxii. 11; xxvi. 256.

· Christison, Chadda River, xxv.

- Cowie, Prince of Wales Land, Arctic, xxiii. 128.

– Dome, Otago, xxviii. 311.

— Ebal, xxiv. 19.

- Egerton, Chadda River, xxv. 115.

- Enniskillen, Central Australia, xxii. 243.

- Ethiope, Chadda River, xxv. 115.

- Eva, Laconia, xxvii. 34, 50. - Farmer, West Australia, xxvi.

256. Fairfax, West Australia, xxii. 68, 69.

- Forbes, Rocky Mountains, xxx. 301.

- Gerizim, xxiv. 10—its geology, xxvi. 56.

- Goodsir, Rocky Mountains, xxx. 299.

— Hamilton, Otago, xxviii. 322. - Hinchinbroke, North-East Aus-

tralia, xxviii. 5. - Hooker, Rocky Mountains, xxx.

295. - Hopeless, Central Australia,

xxii. 270.

Hor, xxiii. 169.
Ijil, West Africa, xxx. 114. - Kenneth, West Australia, xxvi.

240. Latham, Chadda River, xxv.

215. Lefroy, Rocky Mountains, xxx.

298. Leith, North-East Australia, xxviii. 130.

MOUNT. Mount M'Connell, North-East Australia, *ib.* 120. —— Madden, West Australia, xxii. 7. — Marshall, West Australia, ib. 238. - Merivale, West Australia, xxii. 23. — Moose, British North America, xxx. 275. — Müller, North Australia, xxviii. 57. - Murchison, Rocky Mountains, xxx. 301. Australia, West xxvi. 258. —— Narryer, West Australia, ib. — Ney, West Australia, xxii. 14, 21. - Njesa, Lower Nyassa, xxix. 234. —— Northampton, Central Australia, xxii. 242. —— *Oeta*, Greece, xxvii. 13, 14. — Ohod, near Medina; see Ohod. — Olympus, Laconia, xxvii. 34, 35, 50. -, Washington Territory, xxvii. 319. —— *Pentelicus*, xxvii. 17, 21, 31. – Pluto, Central Australia, xxii. 239. - Possession, Davis Straits, xxiii. 144. · Ragged, West Australia, xxii. 19. · Redshirt, North-East Australia, xxviii. 131. – Ridley, West Australia, xxii. 12, 13. —— Rokoko, Yoruba, xxx. 225. – Sandeman, North Australia, xxviii. 45. — Short, West Australia, xxii. 8, 33. —— Shuru, or Shua; see Shuru. — Sinai; see Sinai. – Stavrokoraki, Marathon, xxvii. 16, 21, 34. — Tabor, xxiv. 22. —— Tourlis, Laconia, xxvii. 35. —— Turtle, British North America, xxx, 273, 275. — Vaux, Rocky Mountains, xxx. 300. — Vugiri, Pangani, East Africa,

xxviii. 211.

xxviii. 72.

Land, Arctic, xxiii. 128.

Warburton, North Australia,

- Washington, Prince of Wales

MUANG.

Mount Welcome, West Australia, xxvi.

– Wilson, North Australia, xxviii. 59.

Mountain systems of Peru, xxvi. 212. —— masses of uncertain detail;

how should they be mapped? xxvii.

Mountains, hints on collecting information regarding, xxiv. 353.

- of Nari (Tibet), general plan of structure, xxiii. 22.

——— of Borneo, little known. - River of, British North America, xxii. 187.

Mounts Barren, South-West Australia; see Barren.

- Magnet, West Australia, xxvi. 242, 246, 250.

Moutiers, on the Isère, xxv. 187.

Moutshobo, Burma, xxvii. 56, 71,

Moviza, East Central Africa, xxiv. 268; xxix. 265; but see Babisa, Wabisa, Moisa, &c.

Mowalli Arabs, Syrian Desert, xxx. 209.

Mowun, Yunan, xxvii. 58, 70, 89.

Moxos Province, Bolivia, xxiv. 264. Mozambique to Lake Nyassi, route from, xxiv. 287.

—, Macleod's inquiries at, xxviii. p. ccv.; vol. xxx. 147—statistics, xxx. 160.

Island, Zambesi River, xxx. 159.

Mozuma River, Zambesi, xxvii. 364.

MPETE, Lake Region, Africa, xxix.

Мрокота, East Africa, xxix. 128. Мкіма, "The Hill," part of coast near Zanzibar, xxviii. 207, 209; xxix. 31, 43 seqq.

Mroe Tribe, Aracan, xxiv. 99, 102. Mruru-Susu, Manchuria, xxviii. 409.

MSALALA, Lake Regions of East Africa, xxix. 267.

Msene, Unyamwezi, xxix. 171, 185, 187. Msiki Mguru, East Africa, xxviii. 211,

Мтандата, East Africa, xxviii. 200.

Mtu Mvoni, or Kibokoni River, East Africa, xxviii. 198.

Muache River, East Africa, xxviii. 192. Muala River, South-East Africa, xxx.

Muang Kabin, Siam, xxx. 178. – La, Yunan, xxvii. 100.

- Lem, Shan, or Laos State, xxvii. 91, 104, 107.

MUANG.

Muang Lom, Shan, or Laos State, xxvi.

- Luang, Phaban, or Prabang,

Shan State, xxvi. 74; xxvii. 105.

Nan, Shan State, ib.

Phé, Shan State, ib.

—— Phrom, Siam, xxvi. 75.

— Tsé, xxvii. 108.

Muangoa River, South Central Africa, xxvi. 124.

Muata Ya Nvo, Central Africa; see Matiamvo.

Muatize Stream, Zambesi, xxvii. 378. Muaze River, Zambesi, xxx. 155.

Muamba River, South-East Africa, xxx. 145.

Mubarakah, Quebec Village, Persia, xxv. 21.

Mubarakabad, South Persia, xxv. 73; xxvii. 166.

MUCHINGA Range, South-East Africa, xxx. 142, 143, 149, 152, 154.

MUCORUMAZE River, south of Zambesi, xxx. 155.

MUCUANCALLAS, or Moganguelas, people south-east of Benguela, xxvi. 129.

Muda, New South Wales, xxii. 270. Mudas Tribe, White Nile, xxx. 133.

MUEMBA Tribe, South Central Africa, xxx. 149.

Mueno-muge, xxvi. 117; see Monomoeze. Mueza, Shuza, South Central Africa, xxx. 152, 153, 154; see Bica, Moisa, Moviza, Babica, &c.

Muga, East Africa, xxiv. 266, 268.

MUGAYER, Ruin in Chaldea, xxvi. 149.

Mugden, Manchuria, xxviii. 407.

Mughs (people of Aracan), xxiv. 86— Musulman, 92, 95.

Mughan (or Mogan), Steppe of, xxi. 7. Mugheir (Ur of Rawlinson), xxvii. 188.

Muguru, East Africa, xxiv. 287.

Muнама River, East Africa, xxix. 110. Muhonyera, East Africa, xxviii. 223;

xxix. 68. Muingwira, Lake Region, East Africa,

xxix. 269. Muikamba, Lake Region, East Africa, xxix. 251.

Munwi, title of different orders of chiefs in interior of Zanzibar, xxix. 56.

—, place on Lake route from Zanzibar, ib. 115.

— Chandi, Unyamwezi, ib. 187. Murro Achinto, South Central Africa,

xxvi. 112.

Muкнмаs, Palestine, xxiv. 18. MUKHNA River, and Plain of, Palestine, xxiv. 11, 18.

MURCHISON.

MUKONDOKWA River, East Africa, xxix. 70, 106, 111, 114 seqq. Mukozimo, Unyamwezi, xxix. 192.

Mukuru Mukovanja River, South Central Africa, xxv. 91.

MUKUTTA River (Kishon), xxiv. 9. Mulatos Gold Mines, North-Mines, North - West Mexico, xxx. 26. Mulcher Pass, Tripoli, xxiv. 276.

MULILA, ancient high road spoken of near Lake Nyassa, xxiv. 288.

MÜLLER, Dr. Solomon, Contributions to the knowledge of New Guinea, xxviii. 264—Expeditions to New Guinea; Dr. Müller the only survivor of five scientific men in expedition of 1828; the Dourga River; great sickness and loss of life, 265—aspect from south and south-west; high internal mountains; islands along the coast, 266 rivers; the Oetanata; south-western promontory of New Guinea, 267—vegetation, 269—animal kingdom; mammalia few; birds, 270—enormous nests; amphibia; fishes; land-leaping fish; climate, 271 — earthquakes;

Mullinga, South-East Africa, xxx. 144. Mulungu, the East African God, xxix.

Mummies in Atacama Desert, Natural, xxiii. 203.

Muna Kea Volcano, Hawaii, xxv. 191.

- Loa Volcano, Hawaii, ib. - Ndonu, Fiji, xxvii. 259.

tides, 272.

Munahlak, Vancouver Island, xxvii.

Munda de Locondo Mountain, South-Western Africa, xxx. 161.

Munden's Battery, St. Helena, xxx. 262.

Mundi Yacu River, Ecuador, xxviii.

Munhona River, South Central Africa, xxx. 137.

Munnipoor Valley, East of Bengal, xxvii. 65.

Muntafik Arabs (Muntifick, Montefic, &c.), xxiv. 168; xxvi. 142, 146; xxx. 201, 203.

Munzinger, Werner, his Abyssinian Researches, xxix. p. clxxxvi.

-, Dr. Ferd., and his Review of Australian Discovery, xxviii. p. cxcv.,

Murchison, Sir R.; his Addresses as President of the Royal Geographical Society, for 1852, xxii. p. lxii.—for 1853, xxiii. p. lxii.—for 1857, xxvii:

MURCHISON.

p. xciv.—for 1858, xxviii. p. exxiii.—

for 1859, xxix. p. cii.

Murchison, Sir R., acknowledges medal for Admiral Smyth, xxiv. p. lxxvii.

— acknowledges medal for Lady Franklin, xxx. p. xcvii.

-, Letter to, from Com. Butakoff, with survey of the Sea of

Aral, xxiii. 93.

—, his anticipations of Australian Gold Discoveries, xxii. p. lxxxii.—confirmation of his views as to geological points in West Australia, xxvi. 269—his view as to the interior conformation of Africa, xxvii. p. clxviii.; xxix. 23; see also *Living-stone*, and Address for 1852.

- Sound, Arctic Sea, xxvi.

11, 15.

– Strait, Baffin's Bay, xxiii.

— River, Arctic America, xxv.

253, 254.

River, West Australia; Fitzgerald's expedition to, xxii. 71, 72; also 61, 65, 66; and xxvi. 258 seqq.

Mount, West Australia,

xxvi. 258.

Range, North Australia, xxviii. 141.

Murad-dere, Balkan, xxiv. 75.

MURDER; of Dolman, in South Africa, xxii. 137—of R. Burns, in Borneo, xxiii. 76—alleged of Sir J. Franklin, 137—of Gunnison and Kerns near Utah, xxiv. cii.—of Catholic missionaries on route to Lassa, xxv. p. cxiii. —of M. Maizan on Zanzibar coast, xxix. 71, 95.

Muri Range, Chadda River, xxv. 116.

Murimbi, East Africa, xxix. 125.

Murioumba, Lake Region of Africa, xxix. 250.

Muroyeн, Kerman, Persia, xxv. 25.

Murray River, On the navigation of, by Capt. Thomas Cadell, xxv. 177; see also, xxix. p. ccxv.

MURRUMBIDGI River, South Australia, xxv. 178, 179.

Murzuk, Fezzan, xxi. 132, 133; xxiv. 279, 281; xxx. 113.

Musacoma, Central Africa, xxiv. 269,

Musgu, Negroland, xxx. 124.

Mush Kynan, Nain, Persia, xxv. 13.

Mushrooms, East Africa, xxix. 403.

Music and Instruments of East Africans, xxix, 370.

Muskat, Imam of. See Maskat.

MYOMBO.

Musk-Ox in very high Northern Latitudes, xxii. 123.

- Lake and Rapid, Great Fish

River, xxvi. 20, 24.

Musliman Mountain, near Jubbé, North Central Arabia, xxiv. 161-164 — Inscribed Rocks on, 165, 166.

Musmeih (Phæneutus) in Lejah of Bashan, xxvi. 50; xxviii. 233.

Musseib, Euphrates above Hillah, xxvi.

Mussoey, Aromatic Bark from New Guinea, xxx. 175. Musta, Wild Tribe among Shan States, xxvii. 91.

Mustag, "Ice Mountain," applied to a range, is properly the name of a pass only, xxiii. 26, 54.

Mustajidde, in Aja and Selma, Arabia,

xxiv. 202, 204.

Muswell Brook, New South Wales, xxii. 230.

MUTEIR, Arab Tribe, xxiv. 186.

MUTILATION in war practised by Eesa and Gallas, xxv. 139.

MUTTON-BIRD of New Zealand dcscribed, xxviii. 317.

- Islands, New Zealand, ib.

MUTU, Quillimane, branch of Zambesi, xxvii. 377; xxx. 158.

Mutullah, Galilee, xxiv. 24.

Muweileh, on the pilgrim route, North Arabia, xxiv. 203.

Muwaylah, below Gulf of Akaba, on coast of Red Sea, xxiv. 213.

Muzeini Arabs, xxv. 276.

Muzimbua, South-East Africa, xxx. 146. MUZIRE River, South Central Africa, xxx. 138.

Muzungu, "The White Man," East African term, xxix. 52.

Mwanda, Zanzibar Coast, xxviii. 188. MWANZA, at south end of Lake Nyanza,

xxix. 270.

Mweyen, Burma, xxvii. 70. Mwezi, "The Moon," East Africa, xxix. 167, 168.

, Sultan, of Urundi, East Africa, ib. 231, 248, 278. See *Unyamwezi*.

Myautse of China, xxvii. 91.

Myedu, Burma, xxvii. 74. Myeengyan, Burma, ib. 76.

Myelat, Burma, ib. 97.

Myerup Station, West Australia, xxii.

Myfor Island, New Guinea, xxx. 174. Myrr-nge River, Burma, xxvii. 59, 78. Муомво River, Lake Route, East Africa, xxix. 111, 112.

MYOTHEIT.

Myotheit, Burma, xxvii. 75. Myu River, Aracan, xxiv. 88.

Myrica, the Chinese, an excellent fruit, externally resembling arbutus, xxiii.

Mysol Island, New Guinea, xxx. 177. Mysory Island, New Guinea, xxx. 174. Mzimu, Lake Tanganyika, xxix. 249,

250.

Mzino Mpia, East Africa, xxviii. 202. Mzizi Mdogo, "Little Tamarind," Lake Route, East Africa, xxix. 82, 107.

N.

Nabes, or Navees, of Sir J. Alexander, the Ovampo, xxii. 157, 158.

Nabi. See Neby, Nebi.

Nabis, Tyrant of Sparta, xxvii. 49,

Nablus (Sychem), xxiv. 10, 18; xxvi.

Nadir, Balkan, xxiv. 54.

NAGA Country and Nagas, East of Bengal, xxvii. 65, 73.

NAGAR, a country west of Tibet, xxiii. 5.

Nagi, Nupé, Niger, xxx. 229. Nagidal, Tribe on Amur, xxviii. 388,

399, 436.

Nagil, Northern Arabia, xxiv. 128.

NAHR Ibrahim (Adonis River), xxiv.

Nahr-el-Kebir, Syria, xxiv. 33.

Nahr-el-Kelb, Syria, near Beirut, ib. 1, 35.

NAHR-EL-SUILB, Branch of the Kelb, Fountains of, Lebanon, xxiv. 35.

NAHR Sidreh, old mouth of Karun, xxvii. 190.

Na'if, Branch of the Arab Tribe Anezé, xxiv. 126, 149.

Nain, Persia, xxv. 15.

NAIPI and Napipi River, Isthmus of Darien, xxiii. 174, 192-196.

Naitasiri, Fiji, xxvii. 237, 257, 260. NAJARITES, Indian Tribe, North-West Mexico, xxx. 12.

Nakandi, Fiji, xxvii. 236.

NAKHIL, North Arabia, xxiv. 203; xxv. 282.

NAKON-HLUANG, Ancient City in Cambodia, xxx. 185, 191, 194.

— Wat, Great Temple in Cambodia, xxx. 179, 185-191, 194.

NAKSH-I-RUSTAM, Sculptures near Darab, Southern Persia, xxvii. 160.

Nakupa, Nupé, Niger, xxx. 229. NALGING, West Australia, xxvi. 236.

NARI.

Nalwawa, Lake Tanganyika, xxix.

Nalyaring, West Australia, xxii. 1. Namaqua Hottentots, xxii. 142, 156, 158, 159.

- Land, Great, xxv. 102-105—

mineral wealth, 103.

- Little, Journey eastward from, along the Orange River. By Robert Moffatt, xxviii. 174.

Namasi, Fiji. See Namosi.

Nambuate River, South Central Africa, xxx. 139.

Name of Red Sea, origins suggested for,

xxiv. 211, 229. Names or Blydeverwacht, South Africa, xxviii. 175.

Namoi River, New South Wales, xxii.

Namosi, Namasi, Fiji, xxvii. 237, 246, 250-256.

NAM-TWEEN River, in Shan Country, xxvii. 95.

NANAIMO, Nanainio (probably a misprint), Vancouver Island, xxiv. 246; xxvii. 270, 273, 277, 279, 287.

NA NOUDRA Yavu, Fiji, xxvii. 258.

NANGORO, King of Ondonga, Ovampo,

South Africa, xxii. 151, 160.

Nangspanke, Yangtsekiang, xxx. 83. NANKING, xxviii. 292—channels to, xxx. 77 — fires on squadron with Lord Elgin, 79, 95.

NANLING Mountains, or "Southern Range," China, xxviii. 289.

Nano, Nanno, mountainous tract southeast of Benguela, Central Africa, xxiv. 273; xxx. 138, 161.

Napipi. See Naipi.

Naples; Government Surveys of, xxv. p. cx.; vol. xxvii. p. cxlviii.; vol. xxviii. p. clxxiii.

Napo River, Excursion to, from Quito, by Dr. William Jameson, xxviii. 337. -; xxvi. 216; xxviii. 341; xxx. 72.

Napotoa, Ecuador, xxviii. 344.

Napoleon, On exaggerated numbers ascribed to ancient armies, xxvii. 24, 25—at St. Helena, xxx. 263.

Naragus Spruit, Orange River, xxviii. 171.

NARANJAL Port, Ecuador, xxx. 71.

Naranjo Volcano, San Salvador, xxviii. 357.

NARENEEN Tribe of Hottentots, xxii. 157.

NARENJARA River, Munnipoor, xxvii. 73. NARI, the most westerly of the three great divisions of Tibet, extending from near the frontier of Sikkim

NARI.

westward. The western provinces of this again from about Lake Manasarowar westward, are the subject of Capt. H. Strachey's paper, xxiii. 1 seqq.

seqq.
NARI Mangyul, Nari Khorsum, Nari Margul, the chief subdivisions of Nari, see under the latter part of the names.

Nariele, Barotsé Country, Upper Zambesi, xxiv. 296, 298, 305.

NARRYER Mountain, West Australia, xxvi. 258.

Nasamones, xxx. 126. Na Seivau, xxvii. 250.

Nasirabad, Nussirabad, Darab, Persia, xxvii. 162.

————, Yezd, Persia, xxv. 20.
————, between Tehran and Kum, xxv. 3.

NATAL, XXII. 138.

Natash, Rumilia, xxiv. 37.

Native Silver, Atacama, xxiii. 205.

NATOAIKA, Fiji, xxvii. 240.

Natteik Pass, Burma, xxvii. 78, 97.

NAUN River, Manchuria, xxviii. 385. NAVARRETE'S Views as to the Landfall of Columbus, xxvi. 189-193, 201, 203,

NAVIGABLE Rivers of North-West Australia, xxviii. 142.

Navigation of Karasu Lakes, Dobrudsha, xxvi. 206, 207, 210.

NAVIGATOR Islands, xxi. 222, 223.

Navua, Fiji, xxvii. 256.

Navuso, Fiji, xxvii. 235, 236.

Navy Bay, Darien, xxvii. 197. Nawa, Bashan, xxviii. 260.

NAYAN, Manchuria, xxviii. 408.

Nснокотsa, Lake Ngami, xxii. 163.

NDAVETA Levu, Fiji, xxvii. 232. Neapolis, in Hauran, xxvi. 50.

Nebr, Antilibanus, xxvi. 46, 53.

Neby or Nebi, Abil or Habil (Tomb of Abel, but near ancient *Abila*, in Antilibanus, Syria), xxiv. 29; xxvi. 43.

— Musa, between Jerusalem and southern end of Dead Sea, xxvi. 57, 58.

—— Shemsin, Cœle Syria, xxiv. 31.

—— Shit, Cœle Syria, ib. —— Sufa, Syria, ib. 27.

Yunas (Porphyrion), near Beirut, xxiv. 2.

Necropolis Cities of Chaldaa, xxvi.

NEELD, Joseph, M.P., Obit. Notice, xxvi. p. clxxxi.

NEEAH Bay, Fuea Straits, xxvii. 319.

NEW.

Negrais Island, Burma, xxvii. 65. Negro Families in Al Jauf, North Arabia, xxiv. 143.

Negroids of East Africa, xxix. 313.

Negroland, Tribes of, xxx. 116.

NEINEN, M. von, xxviii. p. cxli.

NEJEB Ridge, Dead Sea, xxvi. 59.

Nejd in Arabia, see Wallin, xxiv. 115; whose journey lay in Nejd, from about p. 166 onwards; 117, 126, 144-146, 150, 159, 162, 174, 175, 178-197, 204, 206; xxviii. 232.

Nejran, Ruined City, Bashan, xxvi.

52; xxviii. 259.

Nekans, Tribe on the Amur, xxviii. 392.

Nelson's Head Mountain, South Africa, xxii. 138.

Nenda River, South Central Africa, xxx. 139.

Nepenthes Distillatoria, in Louisiade Islands, xxi. 16.

Nera, district producing iron, African Lake Region, xxix. 261, 262, 269.

NERQUA River, Feeder of Atrato, xxvi. 180.

Nertchinsk, Russo-Mongol frontier, xxviii. 376, 414.

Nespod, Vancouver Island, xxvii. 288. Nests, enormous in New Guinea, xxviii. 270.

Nevées, in Tibet below snowline, xxiii. 54.

Neves, Senhor, of Cassange; his kindness to Livingstone, xxv. 227.

New Almadin Quicksilver works, California, xxx. 2.

Newbold's Observations on Red Sea

Temperature, xxiv. 230.

New Caledonia; see under Erskine, xxi. 234—French Surveys of, xxv. p. cv.—taken possession of by France, xxvi. p. ccxxviii.—French settlement of, as affecting our steamer line to Australia, xxvi. 187—French establishment, and objects at, xxix. p. ccxx.

Newcastle Bay, North Australia, xxviii. 7.

Table Range, North Australia, xxviii. 141.

Newfoundland Bank; ships on ice over, supposed Franklin's, xxvi. 32.

land to, denied; see *Irminger*, xxvi. 36, 41.

New Granada Surveys, xxvi. p. cexxii. New Guinea, xxi. 13—Dutch Expedition to, 18; xxix. p. clxxviii.

-----, eontributions to the know-

NEW GUINEA.

ledge of. By Dr. Salomon Müller, xxviii. 264.

New Guinea, Notes of a Voyage to. By Alfred R. Wallace, xxx. 172.

New River, Otago, xxviii. 299.

New Zealand Race of Men, Observations on the STATURE, BODILY WEIGHT, magnitude of chest, and PHYSICAL STRENGTH of the, xxiii. 87.

-, Survey of southern part of Middle Island. By Capt. STOKES,

xxi. 25.

-, proposed trade Friendly Islands with, xxii. 116-—chart of group of, xxvi. p. excix. notices of, xxix. p. ccxvii.

p. cii.; vol. xxvii. p. cxxvi.; vol.

xxviii. p. clii.

Newera Kalawiya, Ceylon, xxvii. 328, 333, 336.

Ney, Mount, West Australia, xxii. 14, 21.

NEYRIZ, and Salt Lake called Neyriz or Kheir, Shiraz Province, Persia, xxv. 70, 71.

NGAMI LAKE; Extract of letter from Dr. LIVINGSTONE, giving an account of his

second visit to, xxi. 18.

—; Galton's unsuccessful attempt to reach, xxii. 152, 154—expedition beyond, see *Livingstone*, xxii. 163—Anderson's journey to, xxv. 79 —prospect of, 85—dimensions, ebb and flow of, 86-changes, 92; xxvii. 353, 363.

- and Nyassa, confounded by a

Reviewer, xxix. 232.

Nganhwuy, Nganhoei, Pro-China, xxviii. 291; xxx. 84. Province of

NGANKING, Ganking, Yangtsekiang, xxx. 84, 97.

Ngapé, a fish - paste much used in Burma, xxvii. 80.

Ngbatado, Yoruba, xxx. 222.

Ngombo, alleged near Lake Nyassa, xxiv. 288.

Ngovi, Lake Tanganyika, xxix. 250. Nguo cones, East Africa, xxviii. 211.

NGURU or Ngu, mountain district inland from Zanzibar, xxix. 43, 74, 100, 101, 279, 443.

-, also a district south of Unyamwezi, ib. 195, 304, 305—the two places confounded, see ib. 308.

NGWEDOUNG, Red Karen Country, Pegu,

xxvii. 94.

NHANJA, Lakes, Grande and Pequeno (hazy views of the Equatorial Lakes), xxvi. 114 seqq.; xxix. 233.

NITRATE.

Nhanja, Nhionja or Shiré River, xxx. 144, 154.

NHECIMO, South Central Africa, XXX. 141.

NHOMBOXE, South-Eastern Africa, xxx. 144.

NIBAG, Arabia, xxiv. 172.

NICARAGUA, LAKE, Survey for a CANAL from, by the River Sapoa, to Port of Salinas or Bolanos in Costa Rica. By Andreas Oersted, xxi. 99.

-, Canal schemes, xxiii.

172; xxx. 58.

Nicholas I. Island, Aral Sea, xxiii. 94.

Nicholson River, North Australia, xxviii. 100.

NIENDA, see Nhanja.

NIFFAR or Nufr, Ruins in Babylonia,

xxvi. 136, 138, 139.

Niger; Exploration, xxiii. p. cxi.—Expedition, xxvii. p. elxiv.; vol. xxviii. p. cc.; vol. xxix. p. clxxxviii.; and see Baikie, xxv. 108; and May, xxx. 212.

-; see Mayo, xxiv. 283; xxx. 112, 116, 121, 125, 148 — Remarks on sources of, by Col. Sykes, xxiii. 119— Model Farm, xxv. 112.

Nikolaefsk, Eastern Siberia, xxviii.

378, 389, 434. Nijni Ulhun, Mongol frontier, xxviii. 412.

NILE Valley, geological reasonings on chronology of, xxi. p. lxxxiv.—Delta,

xxix. p. clxxxvi.

— White, and its sources, xxi. p. lxxxviii.—Col. Sykes on, xxiii. 119; xxv. p. cxx.; vol. xxvi. pp. cexiii., 117, 130; xxvii. p. clxvii.; vol. xxix. pp. clxxxii. 201, 276; vol. xxx. p. clxxxvii.; 128 seqq.
Nimreh, old town, in Bashan, xxviii.

243.

NINDO, East African Lake Region, xxix. 268.

NINEPIN Rock, Torres Straits, xxvi.

Ninguta, Manchuria, xxviii. 409.

Nipe, first port in Cuba made by Columbus, xxvi. 201.

Nipolino, Milo, Archipelago, xxii. 204, 206.

NISQUALLY River, Washington Territory, xxvii. 317.

NITI, true source of Ganges near Himalya, xxi. 64.

NITINAT, and so-called Indians, Vancouver Island, xxvii. 269, 285, 295. NITRATE of Soda, trade in, Tarapaca,

NITROUS.

Southern Persia, xxi. 113, 114, 117;

NITROUS Water of East Africa, xxix.

Niungui, Amur, xxviii. 438.

NIVE River, Central Australia, xxii. 239 - 241.

NIVELLE River, Central Australia, ib. 240, 241, 257.

NIZAM costume, Turkish, xxiv. 41.

Njesa Mount, Lake Nyassa, xxix. 234. NJOKE River, South Central Africa, xxx. 140.

Noble Island, North-East Australia, xxviii. 6.

Nokon Temple, Cambodia, xxx. 179; see Nakon.

Nollis, W., Exploration of Rocky Mountains for Railway, xxiv. p. ciii.

Nolloth, Comm., Survey of Orange

River Coast, xxv. p. ci.

Nomad Tribes; of Tibet, xxiii. 6, 7—of Fars, xxvii. 153, 156, 163, 167, 168, 170, 171—of Upper Amur, xxviii. 397.

Noosop River, Damara Land, xxii. 152.

NOOTKA Sound, Vancouver Island, xxvii. 288, 294.

NORFOLK Island, made over to Pitcairn Islanders, xxvi. p. ccxxviii.

Norris, Edwin; Geographical List of Places with Two Names, xxiv. 318.

—, c.e.; Report on the Costa Rica Isthmus, xxiii. route across the 173.

North America; see America, and List

of Papers.

- American Exploring Expedition, xxix. p. exev.; and see Palliser, xxx. 267.

- Australia; Remarks on Settlement of, xxvi. 185; xxvii. p. clxxii.; vol. xxviii. p. exevi.

- Australian Exploring Expedition, under the command of Augustus C. Gregory, Journal of, xxviii. 1.

– Devon, Baffin's Bay. xxiii. 142. - Odd and South Odd, Wick, xxvii. 230.

- Pole River, Arctic America, xxv. 247.

NORTH-WEST PASSAGE, Discovery of by Comm. McClure, of H.M.S. Investigator, xxiv. 240.

-, xxv. 198. - Monsoon (?), xxviii. 369. NORTHAM, West Australia, xxvi. 235. Northampton, Marquis of, Obit. Notice, xxi. p. lviii.

NUPE.

NORTHAMPTON, Mount, Central Australia, xxii. 242.

NORTHERN Island, North-Eastern Australia, xxviii. 5.

Northumberland Island, Baffin's Bay. xxiii. 140; xxvi. 11.

-, North-Eastern

Australia, xxviii. 5.

--- Sound, Arctic Sea, xxviii. 372.

NORTON SHAW River, Northern Australia, xxviii. 140.

NORUBY, Borders of Bushman Land, xxviii. 167.

Norusep, near Orange River, xxviii. 174.

Norway, Surveys of, xxvi. p. ccv.

Nose-Flute, Tonga, xxii. 112, 113.

Note-taking, precautions as to, in Mahomedan country, xxiv. 225.

NOTUANG River, Tributary of Limpopo, xxiv. 289.

Nougat Sprut, Borders of Great Bushmanland, xxviii. 157.

Nousi, Borders of Great Bushmanland, xxviii. 166.

Nova Scotia, Surveys (chiefly coast), xxv. p. ciii.; vol. xxvi. p. cc.; vol. xxvii. p. cxxvii.; vol. xxviii. p. cliv.; vol. xxix. p. cl.; vol. xxx. p. cxxxix.

Novachista, Port of North-West Mexico, xxx. 44.

Novaia Zemlia, animal life in, xxii. 120.

Novara, Voyage of Austrian xxviii. p. clxv.

Michaelovsk, Novo Amur, xxviii. 435.

- Tsuruhaituevsk, xxviii. 378.

NTWETWÉ, Saltpans, Ngami, xxii. 163.

NUBATIYEH, Syria, xxiv. 4.

Nubra and River (a main Indus feeder), north-west of Ladak, xxiii. 14, 16, 24, 27-29, 34, 38, 42, 53—Debacles in, 55, 56, 57, 60, 67.

Nufé People, Central Africa, xxx. 121; see Nupé.

Nuffar, Ruins in Babylonia, xxvi. 136, 138, 139.

Nufudh, Nufood, or Dahna Desert, the high sandy tract of North Central Arabia, xxiv. 136, 138, 149-151, 159, 160, 162, 163, 166—its definition,

167, 168, 170-172, 176, 197, 204. Nugent, Lord, Obit. Notice, xxi. p. lviii. Nugigi for Ujiji, xxiv. 266, 268.

Nujain, Fars, xxvii. 181.

Nun River, Kwora mouth, xxv. 109.

Nungia, Amur, xxviii. 440.

Nupe countries, Journey in Yoruba and.

NUTMEGS.

By Daniel J. May, R.N., XXX. 212;

see also Nyffi.

Nutmegs, Wild, in East African Lake Region, xxix. 282—in New Guinea, xxx. 175.

NYAKAHANGA, African Lake Region, xxix. 283.

NYAM Nyam, Reported people of Cen-

tral Africa, xxix. 297. Nyamongo, Hill in Lupata, Zambesi, xxvii. 385.

Nyanam, Nari, Tibet, xxiii. 4, 16.

Nya Ngaha, Lake Route, East Africa, xxix. 129, 145.

Nyanza, Lake, xxix. pp. clxxxi. 3, 13, 20, 26, 141, 153, 164, 165, 208—discovery of, 259, 260, 270 seqq—description, 273 seqq—confusions about, 233—question of its being Nile source, 276 seqq.; 281, 283, 284—wild coffee of, 285, 289, 290—best way of exploring, 295, 297, 298—route from Kazeh to, 453.

NYARAMBA, Lake Region, East Africa,

xxix. 164.

Nyasanga, Lake Region, East Africa, xxix. 248.

Nyassa, Lake (Nyassi), xxiv. 288; xxix. 3—for Tanganyika, xxvi. p. ccxiii.; vol. xxix. 5; xxvi. 112, 114, 115, 120, 130; xxix. 3, 14, 167, 215 confusions about, 232-234, 271, 272 ivory from, 443.

Nyffi or Nufe, Nupé, on the Kwora, xxiv. 286; xxx. 125; see also May,

xxx. 212.

Nyika, or Wazegura Wilderness, East Africa, xxviii. 213.

Nyoungoo, Burma, xxvii. 76.

Nyoung-yuwé, Shan State, and Lake of, xxvii. 55, 80, 95, 96; xxviii. 233.

Nzasa, near Zanzibar coast, xxix. 64-66.

Oak Timber in Balkan, waste of, xxiv.

Oaks in Bashan, xxviii. 245.

OA' Ames, Thermal Spring, Orange River, xxviii. 175.

Oases, Chains of African, xxx. 113.

— of Ghadamis, xxx. 255.

Oath of Brotherhood, see Brother Oath. Obagba, Yoruba, xxx. 212.

Obba River, Yoruba, xxx. 213.

Obillah, Lower Euphrates, confounded with Havila, and called Hind or India, xxvii. 186, 188.

OBITUARY.

Obitotchna Spit, Sea of Azov, xxvii. 145.

OBITUARY NOTICES:

Acosta, Gen. Joaquim, xxiii. p. lxvi.

Adam, Sir Charles, xxiv. p. lxxix.

—–, Sir Frederick, ib.

Adamson, J., xxvi. p. clxxii. Anderson, R., xxvii. p. cxiii.

Baker, Col. G., xxx. p. c.

Barclay, Charles, xxvi. p. clxxiii.

BARNARD, Sir A., XXV. p. lXXX. Beaufort, Admiral Sir F., xxviii. p. cxxiii.

Beautemps-Beaupré, xxv. p. xciii. Becroft, Capt. John, xxv. p. lxxxiv.

Beechey, Admiral, xxvii. p. xciv. Bellot, Lieut. J. R., xxiv. p. lxxxvi.

Bexley, Lord, xxi. p. lvii. Bird, W. Wilberforce, xxviii. cxxxvi.

Blackwood, Capt. Price, xxiv. p. lxxx.

Brisbane, Sir T. Makdougall, xxx. p. cii.

Brockedon, W., xxv. p. lxxxiv. Broke, Sir Philip, xxv. p. lxxxv.

Brooke, Sir Arthur de Capel, xxix. p. cxxviii.

Brown, Robert, xxix. p. cxv.

Brunel, Isambard K., xxx. p. cvi. Buckingham, James Silk, xxvi. p.

clxxiii.

clxxiv.

Buckland, W., d.d., xxvii. p. ciii. Burnett, J. C., xxv., p. lxxxv. Campbell, Lieut.-Col. Neil, xxvii. p.

cviii.

Carbuccia, General, xxv. p. xciii. Carr, Comm. Washington, xxvi. p.

CHATTERTON, Sir W., ib.

Clarke, Gen., of Missouri, xxii. p.

Clive, Hon. R., xxiv. p. lxxxii. Colby, Major-General, xxiii. p. lxviii.

Colquinoun, Col. J. Nisbet, xxiv. p. lxxxii.

-, Chevalier James de, xxvi. p. clxxiv.

Conybeare, Dean, xxviii. p. cxlvii. Dartmouth, Earl of, xxv. p. lxxxvi.

Delabeche, Sir H. T., xxv. p. lxxxi. DE MAULEY, Lord, xxv. p. xcii.

DE URCULLU, Don José, xxvi. p. clxxxvi.

Derby, Earl of, xxii. p. lxvi.

Dollond, George, xxiii. p. lxxiii. Dubois de Montpereux, xxi. p. lxi.

Duckett, Sir George, xxviii. p. CXXXIII.

OBITUARY.

Dukinfield, Rev. Sir Henry, xxviii. p. exxxii. Ellesmere, Earl of, xxvii. p. xcvii. Elliott, Charles, xxvii. p. exiv. Elphinstone, Hon. Mount Stuart, xxx. p. evii. Elsey, J. R., xxviii. p. cxxxvi. Estcourt, T. Bucknall, M.P., xxiv. p. lxxxiii. -, Major-Gen. J. Bucknall, xxvi. p. clxxv. FITZJAMES, Capt. James, xxv. p. lxxxvi. Fitzwilliam, Earl, xxviii. p. exxxiii. Forbes, Comm. F. E., R.N., xxii. p. lxvii. Franklin, Sir John, xxv. p. lxxxvi. Fraser, James Baillie, xxvi. p. elxxv. Frere, Bartholomew, xxii. p. lxv. Galitzin, Prince Emanuel, xxiv. p. Ixxxiii. Graves, Capt. T., xxvii. p. eviii. Greenough, George Bellas, xxv. p. lxxxviii. Haddington, Earl of, xxix. p. exxix. Halford, Rev. T., xxvii. p. exi. Hall, Dr. G., xxvi. p. elxxvi. Hallam, Henry, xxix. p. cxx. Hamilton, William R., xxx. p. cix. Hammer-Purgstall, Baron, xxvii. p. Hammond, W., xxvi. p. clxxvii. HARRIS, Capt. Fortescue W., xxvi. p. clxxvii. Holman, Lieut. J. Baptiste, xxviii. p. CXXXIV. Holmes, John, xxiv. p. lxxxiii. Home, Capt. Sir J. Everard, xxiv. p. lxxxiv. Hooper, Lieut. W. H., xxiv. p. lxxxiv. Hume, Joseph, M.P., XXV. p. xc. Humboldt, Alexander von, xxix. cii. Inghirami, Padre, xxii. p. lxx. Inglis, Sir Robert Harry, xxv. p. Irving, Dr. E. G., xxvi. p. clxxvii. Jackson, Col., xxiii. p. lxxi. Jameson, Prof. Robert, xxiv. p. Jenkyn, Rev. Dr., xxix. p. cxxxiv. Jervis, Lieut.-Col. T. B., xxvii. p. John of Austria, Archduke, xxix. p. exii. Kane, Dr. Elisha Kent, xxvii. p. exvii. Kenyon, Dr., xxvii. p. exvii. King, Rear-Admiral P. P., xxvi. p. clxxviii.

Lapie, Col. Pierre, xxi. p. lxi.

OBITUARY.

Laurence, Hon. Abbott, xxvi. p. Laurie, Richard Holmes, xxix. p. exxxvi. LEAKE, Col. W. Martin, xxx. p. cxiii. LLOYD, Lieut.-Col. J. A., xxv. p. xcii. Loch, Capt. Granville, xxiii. p. lxxiv. —, James, xxvi. p. clxxx. Loftus, W. Kennett, xxix. p. cxxxvii. Londesborough, Lord, xxx. p. exvi. Maguire, Corporal, xxviii. p. exlii. Malcolm, Sir Charles, xxii. p. lxiv. Mawbey, General, xxi. p. lviii. MEECHAM, Comm. G. F., xxix. p. exxxiii. Meek, Sir James, xxvii. p. exi. Melvill van Carnbee, Baron, xxx. p. exviii. Melville, Viscount, xxii. p. lxvi. MEYER, Gerold, xxix. p. exiv. MICHELOT, A., XXV. p. xciv. MITCHELL, Sir T., XXVI. p. clXXX. Molesworth, Sir W., ib. p. clXXXI. Montagu, Major H. Seymour, xxix, p. exxx. Moorsom, Capt. W., xxx. p. exix. Neeld, Joseph, M.P., xxvi. p. clxxxi. Northampton, Marquis of, xxi. p. lviii. NUGENT, Lord, ib. Oersted, xxii. p. lxix. Ogle, Sir Charles, xxix. p. exxxii. O'GORMAN, XXIV. p. lXXXIV. Outram, Sir Benj., xxvi. p. clxxxi. Parry, Sir W. E., xxvi. p. clxxxii. Paulson, Comm., xxix. p. exxxiv. Peel, Sir Robert, xxi. p. lvii. Phillimore, Dr. J., xxvi. p. exxxii. Price, Rear-Admiral D., xxv. p. xeii. Pusey, Philip, M.P., xxvi. p. clxxxv. Radstock, Lord, xxvii. p. exiii. Ramsay, Sir Jas., xxix. p. exxxiv. RAPER, Lieut. Henry, xxix. p. cxxvi. RAYMOND, Archdeacon, xxx. p. cxix. Reid, Sir William, xxix. p. exxxi. Rendel, J. M., xxvii. p. exi. Ripon, Earl of, xxix. p. exxi. RITTER, Karl, XXX. p. exx. Rochet d'Hericourt, xxv. p. xciii. Ross, Sir John, xxviii. p. exxx. -, Sir Patrick, xxi. p. lviii. Roussin, Admiral, xxv. p. xeiii. Santarem, Viscount, xxvi. p. clxxxv. Adolf, xxix. SCHLAGINTWEIT, exxxvii. Schouw, Professor, xxii. p. lxviii. Scoresby, Rev. Dr., xxviii. p. exxxviii. Shadwell, Sir Lancelot, xxi. p. lix.

OBITUARY.

Simpson, Dr. John, xxx. p. cxxi. Smith, Sir Charles Felix, xxix. p. cxxix.

-, Abel, xxix. p. exxxv. Spencer, Earl, xxviii. p. cxxxvi. STANLEY, Lord, of Alderley, xxi. p. lix.

 \neg , Capt. Owen, *ib*. STANNUS, Sir E. G., ib. STAUNTON, Sir G. T., xxx. p. exxiv. Stephenson, Robert, xxx. p. cxxi. STOKES, Charles, xxiv. p. lxxxiv. STRICKLAND, Hugh E., xxiv. p. lxxxv. Taylor, Richard, xxix. p. exxxv. TINDAL, Comm. C., XXX. p. cXXVI. Tonna, Lewis H., xxvii. p. exiv. Trithen, F. H., xxv. p. xciii. TROTTER, Rear-Admiral Henry Dundas, xxx. p. exxvi. Vattier de Bouville, xxv. p. xciv.

Vogel, Dr., xxviii. p. cxli. Von Buch, Leopold, xxiii. p. lxiii. Von Reden, Baron, xxviii. p. cxl. Vulliamy, B. L., xxiv. p. lxxxv.
Wahlberg, J. F., xxvii. p. cxvi.
Wahlenberg, Prof., xxi. p. lxi.
Walckenaer, Baron, xxii. p. lxvii.
Wallin, Prof. G., xxiv. p. lxxxiv.

WARBURTON, Henry, xxix. p. exxiii. Weir, William, xxix. p. exxviii. Wharncliffe, Lord, xxvi. p. clxxxvii.

WIDDRINGTON, Capt. S., ib. Wielhorski, Count, xxvi. p. elxxxviii.

WILLIAMS, Rev. D., XXX. p. exxvii. Wilson, Sir Belford F., xxix. p.

Wood, Comm. James, xxx. p. cxxvii. Yates, Jos. Brook, xxvi. p. clxxxviii. Zahrtmann, Admiral, xxiii. p. lxvi. Oboop, Orange River, xxviii. 174, 184.

Observations. See Astronomical. -, Hints to Travellers on; by Raper and FitzRoy, xxiv. 331; by Smyth and Beechey, 335 seqq.; by Galton, 349 seqq. See also Everest, xxx. 315.

- and Instruments, Memorandum for Capt. Burton on, by Admiral Beechey, xxix. 7.

-, Meteorological. See Su-THERLAND and THURBURN. But sec Tables.

Observation Island, North Australia, xxviii. 11.

OBSERVATORY Inlet, British North Ameriea, xxii. 193.

Ocean Currents, Tides and bottom, xxiii. p. cxxxi.

OCEANIC CURRENTS, and their connexion with proposed Central American OKEBODE.

Canal; by A. G. FINDLAY, XXIII.

Ochi Race, Ashanti, xxx. 122.

O'Connor, Governor, Tour from Gambia to Salum River, noticed, xxv. p.

Ocorona, North-West Mexico, xxx. 14,

Ocoroni River, North-West Mexico, ib. 14.

Ocotepeque, Honduras, and plain of, xxviii. 350, 358.

Ocoz, Guatemala, xxviii. 361. Odour of Africans, xxix. 85, 317.

Enus River (Kelefina), xxvii. 34, 35,

OERLAMS, or Mongrel Hottentots, a Namaqua Tribe, xxii. 157; xxv. 103. Oeroe Langeroe, or Triton Bay, New Guinea, xxviii. 266.

OERSTED, ANDREAS, of Copenhagen. Survey for a Canal (from Lake NI-CARAGUA) through the River Sapoa to the Port of Salinas or Bolanos, in Costa Rica, xxi. 96—ascent of River Sapoa; rapids; low plain between River Sapoa and Pacific, 97—greatest height, 270 feet; extent of excavation for a canal; comparison with Mr. Bayley's site, 98.

Eta, Mount, Greece, xxvii. 13, 14.

OETANATA River, New Guinea, xxviii.

266.

O'FARRELL, Mr., of Topographical Department, War Office; his mode of projection, xxx. 109.

Offa, Yoruba, xxx. 213.

Og, King of Bashan, xxviii. 228, 256.

Ogari, Monomoiese, xxvi. 118; corruption of *Ugali* in Unyamwezi, see xxix. 195.

Ogba, Oasis in Tripoli, xxii. 132.

Ogbawmoshaw, Yoruba, xxx. 212, 213. Ogle, Admiral Sir Charles, Obit. Notice, xxix. p. cxxxii.

O'GORMAN, G., death noticed, xxiv. p. lxxxiv.

OHA Country, African Lake Region (for *Uhha*, q. v.), xxvi. 118.

Ohod, Mount, near Medina, xxiv. 215, 224; xxv. 122.

Ohtan, Yoruba, xxx. 220.

OIL-PLANT, Chinese, xxiii. 251.

Oils of East Africa, xxix. 366.

OJITA, North-West Mexico, xxx. 16. Ojogo, Chadda River, xxv. 114, 120.

OKAMABUTI, Northern Boundary, Damara Land, xxii. 149.

Okanagan Lake, Columbia, xxvii. 311. OKEBODE, Yoruba, xxx. 219.

OKPA.

OKPA River, Yoruba, xxx. 215.

OLD Bow Fort, Rocky Mountains, xxx.

289, 291, 313.

Oldham, Prof. T., Superintendent Geological Survey of India, xxii. p.

Burma, xxvii. 57.

Oldoi River, Amur, xxviii. 426.

OLEKMA River, Manchuria, xxviii. 388.

Olgongro River, Amur Land, xxviii.

Olhon, Manchuria, xxviii. 408.

OLIFANT River, Tributary of Limpopo,

XXX. 250. See Elephant River.
OLIFANT'S Neek, Pass in Transvaal,

ib. 251.

OLIPHANT, LAURENCE; Notes of a Voyage up the Yangtse or Takiang, from Wusung to Hankow, with chart by Capt. Sherard Osborn, xxx. 75—the squadron, 76—changes since former charts; difficulties at entrance, 77 the Furious strikes near Chinkiangfu, 78—Golden Island, an island no longer; the name of the river, 79 short engagement with rebels in Nanking; islands in river, 80; the rebels; Pillar Hills, 81—Wooloo; depopulation of the country; Wanchang, 84—Zec-Kiang; Tatoong, 83 -Nganking, 84-Matoongshan, 85-Little Orphan Hill, 85—entrance to the Poyang Lake; noble scenery; Leu Shan Mountains; Great Orphan Rock, 86—vast accession of waters from the Poyang; rise of the river in the rains, 87—Kewkeang, 88—gorge at entrance of Hoopeh province; Devil's Bite Hills; Kechow; probable future of the river trade, 89, 90—position of Woochang, Hanyang, and Hankow, 90.

Abstract of daily distances in ascend-

ing and descending, 92.

OLIVE oil in Tripoli, xxii. 134.

- trees in Central Africa, xxiii. 121.

Olives, said formerly to have grown at Al-Jauf, North Arabia, xxiv. 148.

Olsen, Mr., of Kane's Expedition, xxvi. 3, 6—his death, 14.

Olympia, Washington territory, xxvii.

OLYMPUS, Mount, in Laconia, xxvii. 34, 35, 50.

Омвеч, kind of shell prized in Damara Land, xxii. 156.

OMANBODE, reported lake in Damara

ORANGE.

Land, xxii. 147 — its nature, 149,

Omatako Mountain, Damara Land, and its grand cones, xxii. 143, 146.

Omawi, Otago, xxviii. 299.

Om·el-Abid, Fezzan, xxiv. 278, 281.

OMENAK, Bay or Fiord, Greenland, xxiii. 152; xxviii. 278.

–, North, xxiii. 137, 138 – examined for traces of Franklin's alleged murder, 139.

Omga River, East Siberia, xxviii. 406.

Omginsk, East Siberia, ib.

OMIEP, Little Bushmanland, xxviii. 168.

Ommanney, Captain; his Arctic Explorations, xxii. pp. lxxi. lxxviii.

— Bay, Arctie Sea, xxiii. 128.

Omoa, Honduras, xxx. 62, 63.

Omorampa River, Damara Land, xxii.

147, 149, 152, 154. Omoroanga, Vaverra River, South Africa, xxv. 89.

Omquinie River, South Africa, xxiv.

OMUTCHAMATUNDA, Ovampo, South Africa, xxii. 151.

OMUTNOI River, Amur, xxviii. 426.

OMUVEREOOM Mountain, Damara Land, xxii. 147.

Onanis, Walfisch Bay, xxii. 145.

Onbes or Africances Kraal, Orange River, xxviii. 175.

Ondonga, Ovampo, South Africa, xxii. 144—rich corn country, 151, 160.

Onganjera Country, Ovampo, South-Western Africa, xxii. 155.

Oniams, near Orange River, xxviii. 171. Onitsha, Igbo, Kwora River, xxv. 111. Ono Mbaleanga, Fiji, xxvii. 252.

Onon River, Mongolia, xxviii. 377, 412-

415. Ontsammas, Orange River, xxviii. 171. Oodong, Cambodia, xxx. 180, 185.

– River, Cambodia, xxx. 180.

Ookwye, Aracan, xxiv. 91.

Oorees, border of Little Bushmanland, xxviii. 169.

Oori River, or Crocodile River, main source of Limpopo, xxiv. 289.

Oos, Orange River, xxviii. 176.

Oosop, Walfisch Bay, xxii. 145.

Oou River, Amur Land, xxviii. 384.

Ophir, xxvii. 386.

ORANGE River, Free State, and TRANS-VAAL Republic, Trading Trip in; by John Sanderson, XXX. 233.

-, physical structure of country adjoining, xxviii. 178.

ORANGE.

Orange River, xxii. 137—survey of coast by Capt. Nolloth, xxv. p. ci.; xxvi. 163.

Orawia River, Otago, xxviii. 320. Orchellaweed, Zanzibar, xxix. 448. Ordeals in East Africa, xxix. 347.

Ordnance Survey; notices of progress, &c., xxi. p. lxvii.—Scotland, and scale question, xxii. p. xc.—the same, xxiii. p. lxxxix. seqq.; xxiv. p. xcii.—Scotland, scales, estimates of cost, &c. xxv. p. ciii.—close of Trigonometrical measurements, scale question, xxvi. p. clxxxix.; xxvii. p. cxxviii.progress, scales, use of photography. xxviii. p. clv.—photography, scales, xxix. p. clii.—parliamentary report, scales, photography, xxx. p. cxli.

Oreamuno, Dr. Francisco, xxi. 96.

OREES Kloof, Little Namaqualand, xxviii. 173.

OREGON, route to China by, xxi. 87, 89; xxii. 192 — and Vancouver Island, warm winters of, xxvii. 215.

Orel Lake, Amur, xxviii. 399.

Ores of Silver in Atacama, xxiii. 205. ORETI and River, Otago, xxi. p. xxv.;

xxviii. 301, 302. Oriental Armies, supineness of, xxvii.

29.

Origstadt, Transvaal, xxii. 139; xxiv. 290; xxx. 243.

Orinoco, proposed investigation xxvii. p. clxxxviii; xxviii. 368.

Oriori Mountains, New Guinea, xxviii. 268.

'Orman (Philippopolis), Hauran, xxvi. 52; xxviii. 255.

Ormut River, Otago, xxviii. 319.

Ormuz (for Ram-Hormuz), Khuzistan, xxvii. 112.

Ornaments affected in East Africa, xxix. 325.

Ornithogalum or "Dove's Dung" in Archipelago, xxii. 223.

Oro Island, Caledonian Bay, Darien, xxvii. 199, 204.

Orochens or -chons, Tungus tribe on Amur, xxviii, 397, 426, 428.

'Orodoup, Orange River, xxviii. 175.

Orongs, Tribe on Sagalin Island, Amur, xxviii. 390.

Orontes, Fountains of, xxiv. 32; xxvi.

Orshefana, Tribe in Tripoli, xxii. 132. Orskaia Fortress, Orenburg, xxiii. 94. Orsova, Danube, xxx. 162.

ORU or Ejo district, Kwora River, xxv.

— River, Burma, xxvii. 72.

OTCHOMBINDE.

Orzu District, Kerman, Persia, xxv. 58, 60.

OSBORNE (Sherard Osborn?), Lieut., Arctic explorations, xxiv. 244.

Osborn, Capt. Sherard, on the Geography of the SEA of Azov, the PUTRID Sea, and adjacent coasts, xxvii. 133 —the Putrid Sea, or Sivash, 133—River Chongar, 134—the Chakraks, 135—Northern Basin; Ghenitchi, 137—Arabat Spit, Salines; central morass portion of Sivask, 138—southern portion of Sivask, 139—transportation of stores to Sebastopol by the Sivask and River Salgir, 141-fluctuations of level with the wind both in Sivask and Sea of Azov, 141, 142 -offensive exhalations, 143-winds; Tornadoes, 144—anchorages in Sea of Azov, 145—currents in Sea of Azov, 146—fresh water in, 148.

Remarks on Amount of Light in Northern Latitudes in absence of the sun, xxviii. 371—misconceptions on the subject; registry of amount of light, 372 standard test selected; results during

two seasons, with diagram.

, his Chart of the Yangtse or Takiang. See Oli-PHANT, XXX. 75, 92.

Osher Tree, Palestine, xxvi. 64, 66. Osново, Yoruba, xxx. 219, 220.

Oshun River, Yoruba, xxx. 214, 219,

Osoyacu River, Ecuador, xxviii. 347. Ossamaré, Igbo, Kwora, xxv. 111. Ostriches, South American, xxi. 119.

—, Central Arabia, xxiv. 189. , East Africa, xxix. 144.

Ostua River, San Salvador, xxviii. 350.

OSWELL, W. C., African Traveller, xxi. 23, 24—his explorations with Livingstone, xxii. 163, 166; xxiv. 293, 300.

OTAGO Province, New Zealand; extracts from a journal kept during performance of a survey of the Southern Districts of; by J. Turnbull Thomson, xxviii. 298.

-, xxi. 25, 27.

Otchando, Ovampo, South Africa, xxii.

Отсиникоwa Montenya, grassy treeless flat in Ovampo, xxii. 151.

Отснікото, extraordinary circular hole at, Damara Land, xxii. 150.

OTCHOMBINDE, or Tunobis, south-west of Ngami, xxii. 142, 152; xxv. 81.

OTERO River, or Chinapas, North-West Mexico, xxx. 17, 19, 37.

OTJIMBINGUE, Walfisch Bay, xxii. 146. Otszidai, Manchuria, xxviii. 407.

OTTER, Captain, Baltic Surveyor, XXV.

OTTERTAIL Lake, North America, XXX.

Outliouk Liman, Sivash, Crimea, xxvii. 135, 144, 148.

Ounip, or Toppners, tribe of Hottentots, xx. 157.

Ouseley, Sir Gore, map made by his party between Bushire and Shiraz lost, xxvii. 114.

Outram River, Arctic America, xxvi. 20. —-, Sir Benjamin, Obit. Notice, xxvi. p. clxxxi.

Ovabunja, tribe in marshy country in South-Western Africa, xxii. 156.

OVALIERERO, tribe in marshy country of the Demara, xxii. 143.

OVAMPANTIERU, tribe in marshy country of the Demara, ib.

OVAMPO, South-Western Africa, xxii. 142, 146, 149—the tribes grow corn and are highly civilised as blacks, 156—disastrous expedition of missionaries and others into, xxviii. p. cciv—Great River north of, xxii. 152, 155, 156.

OVAPANGARI, tribe of South Africa, north of Ovampo, xxv. 90.

OVAPANYAMA, tribe of South Africa, north of Ovampo, ib.

Ovens River, feeder of the Murray, xxv. 181.

Overweg, Dr., xxi. 130; xxii. 133 explorations and death of, xxiii. p. cx.; vol. xxvii. pp. clxi., clxii. See African Mission.

Owen, Capt. W. F., Survey of the East Coast of Africa, xxix. 2, 31—his voyage quoted, xxiii. 102, 115.

-, D., Geological Surveyor of Wisconsin, xxiii. p. cxv.

Owl, Horned Fishing, Aracan, xxiv.

Owu, Yoruba, xxx. 221.

Oxen, wild; in Borneo, xxiii. 75—in Cambodia, xxx. 197.

Oyele River, Yoruba, xxx. 219. Oyi River, Nupé, Niger, xxx. 227. Ozman Bazaar, Balkan, xxiv. 73.

P.

Paardi Fontein, South Africa, xxviii. 157.

PALIMATA.

Pacaya Volcano, Guatemala, xxviii.

Paca-yacu, Canclos, Ecuador, xxx. 71, 73.

Pachim, Siam, xxx. 178.

Pachitea, Amazons feeder, xxvi. 216. Pacific; currents of, xxiii. 223 seqq.
—appropriateness of name, xxv. 195 —and Atlantic, relative levels, xxvi. 182—trade winds, xxviii. 362 seqq.

-; projects of canals and Railways, &c., for communication with. Sce Whitney, xxi. 86—Synge, xxii. 174—Oersted, xxi. 96; xxii. p. cxv. —Fitz-Roy, xxiii. 171—Friend, 191; xxiv. p. ci.—Prevost, 249; xxvi. p. ccxx—Kelley, 174—Gisborne, xxvii. 191; xxix. pp. exeviii., cevi; vol. xxx. pp. clvi.

- Surveys, xxv. p. cii.; vol. xxvi. p. cc.; vol. xxvii. p. exxvi; vol.

xxix. p. exlix.

Padauari River, Rio Negro, xxiii. 213.

Pading, Burma, xxvii. 75.

Padiwel Tank, Ceylon, xxvii. 329, 332.

Padongo tribe, White Nile, xxx. 133. Pagan, Burma; longitude of, xxvii. 61—its remains, ib. and 76.

-, Old, Burma, xxvii. 70.

Pagodas, Buddhist; in Aracan, xxiv. 89, 90, 92, 96, 97–99—in Burma, xxvii. 63, 65, 76—of Rangoon, 79, 96—its legend, 105.

Pahees, Otago, xxviii. 321.

Pailon Harbour, Ecuador, xxx. 69, 70.

Paintings, native Australian, xxviii. 70. See also xxvi. 252.

Paiquina, Southern Peru, xxi. 107.

Pakphrek, Siam, xxvi. 76.

PAKPRIAN, Siam, ib.

Palæogoula, Laconia, xxvii. 34.

Palæo Khori, Milo, xxii. 202, 220, 221.

Palæo Pyrgo, Ætolia, xxvii. 5.

Palawan Island, chart of, xxvi. p. excix.

Palbo, Tibetan name for Ncpal, xxiii.

Palestine, Outlines of a Journey in, by Rev. Dr. E. Robinson, E. Smith, and others, xxiv. 1.

-, Report of a Journey in, by

Henry Poole, xxvi. 55.

———, Desiderata in Geography of, xxx. p. exxxiii.

Palimita River, San Salvador, xxviii. 353,

PALLACOPAS.

Pallacopas, Canal of Alexander, in Babylonia, xxvi. 140.

Pallas, Dobrudsha, xxvi. 205.

Pallegoix, Bishop; his experiences in Siam, xxvi. 71, 74, 75—his account

of, xxx. 177, 179.
PALLINCOP River, Western Australia,

xxii. 2, 3, 4, 50, 51, 53.

Palliser, Capt. John; Report of Progress of British North American

Exploring Expedition, xxx. 261.

No. 1. Report of Capt. Palliser from Fort Garry, Red River.

First General Report on the Geology of the Country examined in 1857, by Dr. J. Hector, 268—geology of canoe route from Lake Superior to Lake Winnipeg, 268—route across the plains from Fort Garry to Fort Carlton, 271—coal, 273—Northern Drifts, 274.

Letter from Mr. Sullivan, Secretary to expedition, briefly stating observations of different kinds which have

been made, 275.

Observations of Temperature of Soil, by Dr. Heetor, 276.

Dr. Hector's Report of a winter journey from Fort Carlton to Fort Pitt, Edmonton House, and Rocky Mountain House, to engage men and horses, 277-281.

No. 2. Report of Capt. Palliser from

Fort Carlton, 282.

No. 3. Capt. Palliser's Report of Work done in Summer of 1858, 283. Pass discovered practicable for horses over Rocky Mountains; Summary of Movements, 284—Eagle Hills, 285— Blackfoot country; Battle River, 286 —destructive Indian practice of fireing prairies, 286—Circees; Lieut. Blakiston rejoins, 288—search for pass; chief mountain in 49°, 289 old Bow fort; Lieut. Blakiston withdraws from the expedition; Kananaski Pass; Columbia portage and lakes, 290—Kutanie Indians; recross by Kutanie Pass, 292—Dr. Hector's valuable services; proposals for next season, 293—Mr. Bourgeau's collections and services, 294—objects effected, 295.

Dr. Hector's Report of his explorations in Rocky Mountains, in August and September, 1858, 296-302—astronomical observations for latitude, 303—observations for variation, 307 — observations, lunar, 307.

PANAMA.

No. 4. Report from Capt. Palliser.

dated January, 1859, 308.

Dr. Heetor's Report on the Geological observations made in his journey from Fort Carlton to the Rocky Mountains, and in the Rocky Mountains and neighbourhood, 309-

Palliser, Capt. John; his expedition noticed, xxvii. p. clxxx.; vol. xxviii. p. clxxvi.; vol. xxx. p. clii.

-, Medal assigned to, xxix. pp. viii., xcvii., exev.

Palm; at 8000 feet elevation, xxi. 75.

— leaf hooks, xxx. 194.
— oil; trade in, xxv. 110; xxx. 125; in African Lake Region, xxix. 219.

—— sugar in Burma, xxvii. 73. —— Island, North-Eastern Australia, xxviii. 5.

Palms in Damara Land, xx. 149.

Palma Peak, San Salvador, xxviii. 350.

- River, Yoruba, xxx. 214.

PALMER, MAJOR EDMUND; Notes on Map of St. Helena, xxx. 260—form; history, 261—Cavendish's visit; Dutch and English struggles, 262— East India Company, 263—slavery; Napoleon; French guardianship of the tomb; transfer to Crown; bishopric; appearance from sea-ward; "the rollers," 264; eminences; tree found common to this and Tristan d'acunha; erater, 265—minerals and fossils; botany; wild goats; birds; sea-birds, 266—fish; eattle; climate; statistics.

Palmyra; xxx. 207, 208—road from

Bozrah to, xxviii. 239, 255.

- trees, Makololo, xxi. 22; xxii. 167.

Palmyrene tomb in Bashan, xxviii.

Paloungs, tea-growing tribe of North-East Burma, xxvii. 69, 92.

Paludes Babylonicæ, xxvi. 140.

Pamir, Plain of, Central Asia, xxi. 65; xxiii. 5.

Pamphia, Ætolia, xxvii. 4.

Pan, grotto of, Marathon, xxvii. 34. Panagia, church of, Marathon, ib., 16,

33.

Panama, Isthmus of; Observations on the Territory of Burica in the Province of Chiriqui. By J. H. Smith, xxiv. 256.

—, xxx. 1.

PANAMA.

Panama, Bay of; currents centering at, xxiii. 235; xxvi. 178; xxvii. 197.

Railway xxiii 173—claims

——— Railway, xxiii. 173—claims of Company to monopolise Isthmus, 190; xxvi. 174; xxvii. 205.

Panda, Chadda River, xxv. 112.

Pandanus, xxi. 16.

PANGANI RIVER, Coasting Voyage from Mombasa to. By Captains R. F. Burton and J. H. Speke, xxviii. 188.

and town, xxiii. 106; xxvi. 118; xxviii. 200, 201, 209; xxix. 13, 31, 39, 42, 45, 46, 48, 56,

374, 441; xxx. 131.

Pangong Lake and District, Tibet, xxiii. 13, 14, 16, 22, 25, 28, 31, 35, 38, 43—description, 46—subsidence, 47—saltness, 48, 52, 54—ice on, 61.

Panlang Creek, Rangoon, xxvii. 80.

Pano, Unyamwezi, xxix. 186.

Pantseke, Yangtsekiang, xxx. 82.

Papallacta, Ecuador, xxviii. 337. Papas, or insulated masses of silver,

Peru, xxi. 108. Papas Koi, Balkan, xxiv. 58, 74.

Paposo, Atacama, xxi. 127; xxv. 159–161.

Papua; currents on coast of, xxiii. 226. Sec New Guinea.

Papuans; sole inhabitants of New Guinea (q. v.), xxx. 172—their characteristics, 174.

PAQUA River, tributary of Limpopo, South Africa, xxiv. 289.

Paracti River, Bolivia, xxiv. 260, 263.

Paracuchichi River, Darien, xxvi. 179, 180.

Paradise, Columbus's ideas of Terrestrial, xxvi. 195.

______, Birds of, xxx. 175.

Paraguay; mission to, xxiii. p. exxi—jealousies of the Government, xxvi. p. ecxxiv.—explorations in, ib.—Maps of, xxvii. p. clxxxvii.

River, steamers on, xxiii. p.

exxi.

Para Lasa of Tibet, meaning, xxiii. 26.

Parasang, or *Fursack*, length of, in Southern Persia, xxv. 61.

Parallelism of features in the Himalya and Tibet, xxi. 65, 68.

Paramos, Plains of the Andes, xxvi. 211, 212.

PARANA River, ascent of, xxix. p. ecix.

Paravati, Bulgaria, xxiv. 77-79.

PARSON.

Paravati River (Lyginos), xxiv., 79, 81 82.

Parinas, Lake of, Southern Peru, xxi. 120.

Parish, Capt. Alfred, on Cyclones and their Tracks, xxvi. 154.

from Humboldt to, about the Isthmus of Darien, xxii. 175.

Pariz, Kerman, Persia, and Turquois mines, xxv. 63.

Park, Mungo, xxx. 127.

Parker, Mr., his report from Esquimaux regarding ships, supposed Franklin's, xxvi. 28, 29.

Parker's Bay, Victoria Land, xxii. 86,

93.

Parkes, Harry; Report on Russian Caravan Trade with China, xxiv. 306—Kiakhta and Mae-maechin, ib. —Imports, 307—furs; woollens; leather, 308—metal and miscellancous—Exports: tea; Chinese manufactures, 310—rhubarb; sugar candy, 311—sundries; carriage of goods, and cost.

Geographical Notes on Siam, with map of lower course of the Menam, xxvi. 71—treaty with Siam; previous relations; civil divisions of Siam, 72—Malayan Tributary States; Camboja, 73—Laos, 73, 74—Chiangmai, &c.; Map of the Menam; travels of Bishop Pallegoix, 75—capital of Siam, 76—ruins of Ayuthia, 77—Bangkok and its population.

noticed, xxvi. p. cexix.

Parkyns, Mansfield; his Travels noticed, xxiv. p. xev.

Parnes Range, Grecce, xxvii. 16.

Parnon, Mount, Laconia, xxvii. 43, 44, 46.

Parrots, swarms of, North-Western Mexico, xxx. 19.

Parry, Sir Edward, Obit. Notice, xxvi. p. elxxxii.

and its small eost, xxiii. 135.

ence to currents on Greenland coast, xxvi. 40, 42.

Mountain, in Grinnell Land, lat. 82° 30′, xxvi. 10, xxvii. 286.

Parson bird of New Zealand described, xxviii. 301.

PARTRIDGES.

Partridges, Arctic, xxii. 75, 81.

Parugerero, Lake Region of Africa, xxix. 211, 227.

Pasaquina River and Plain, Salvador, xxviii. 353, 358.

Pasir River and State, Borneo, xxiii.

Pasitigris River, xxvii. 120, 123, 125, 127, 190.

Pasley, Cape, Western Australia, xxii. 20.

Passes of West Tibet, their character

and height, xxiii. 25.

of the Balkan. See Jochmus. xxiv. 51 seqq.

Pastasa, Pastaza River, Amazons feeder, xxvi. 216; xxx. 71.

Pasunga, Ksumbara, East Africa, xxviii. 212, 217.

Patagonia, climate of, xxvii. 213.

-------, dry south wind of, xxvi.

Patambegaha Ella Damoonoo, Ceylon,

xxvii. 340. Patani, Malay State, xxvi. 72.

Paterson's journey in Darien cited, xxiii. 176, 180, 182.

Pati River, feeder of Atrato, xxvi. 175.

Pat-Koi Mountains, Upper Assam, xxvii. 64, 67.

Pattimar (Indian craft), xxiv. 210.

Patton, Professor, on the Aneroid, xxi.

Patung, Yangtsekiang, xxviii. 289.

PAUCARTAMBO, north-east of Cuzco, xxv. 151, 156, 158.

Paulson, Commander, Obit. Notice, xxix. p. cxxxiv.

Pausa, Cape, Amur mouth, xxviii.

Pausanias cited, xxvii. 19, 41.

PAYE Valley, New South Wales, xxii.

Payendwen, Upper Burma, xxvii. 68. Paz River, Guatemala, xxviii. 361.

Paza River, San Salvador, xxviii. 349.

PEABODY Bay, Northern Greenland, xxvi. 8.

Peace River, British North America, xxii. 184, 186, 190.

Peak Range, North-Eastern Australia, xxvi. 185; xxviii. 126.

Peaks; of Himalaya, xxi. 61—height of Tibetan, xxiii. 24, 25.

Pearce, Point, North Australia, xxviii.

REARSHAPED form of the earth, according to Columbus, xxvi. 198.

PEMBERTON.

Pebble heaps, anomalous, South New Zealand, xxviii. 306.

Pechen Valley, Chusan, xxiii. 245.

Pecolom Tank, Ceylon, xxvii. 340, 343.

Pedam, Kazin, Southern Persia, with its orange and lemon groves, xxvii.

Pedder Bay, Vancouver Island, xxvii.

Pedro, Baptista, crosses the African continent, xxvi. 111, 113, 121; xxvii. 373; xxx. 151.

Peekhyoungdyn, a range in Aracan, xxiv. 105, 106.

PEEL, Capt. Sir William, R.N., Obit. Notice, xxix. p. cxxxii.

-, Cape, Victoria Land, xxii. 94. — Sound, Arctic Sea, xxiii. 127; xxvi. 29.

Peenzen Myo, Burma, xxvii. 78. Peepul Tree, English encroachments compared to, xxvii. 57.

Pegu, province and former kingdom of; map of, xxvii. 57, 62-65, 76—teak forests of, 79, 82, 83—population of, 85, 86.

- City, 77.

— River confounded with Sitang and Salwen, xxvii. 54, 82.

Peiho River, China, xxviii. 295. Peine, site of meteoric iron in Atacama, xxi. 128, 130; xxv. 166.

Pelican Lake, British North America, xxii. 182.

Island, North Australia, xxviii. 6.

Pella, Little Namaqualand, xxviii. 170.

Pelly Banks Station, British North America, xxii. 187.

—– River, ditto, *ib*.

--- Point, Victoria Land, xxii. 91. -- Lake, Arctic America, xxvii. 327.

- Bay, Arctic Sea, xxv. 254, 255.

- Isle and Island, Arctic Sea, xxiv. 242; xxv. 197.

Pelomping, Cambodia, xxx. 180.

Peloponnesus, ancient strategic movements in. See Jochmus, xxvii. 46 seqq.

Pelusium, site of, xxix. p. cxliii.

Pemba Island, East Africa, xxviii. 189-192, 197; xxix. 1, 37.

Pemberton, Capt. R. B.; his journeys in Burma, xxvii. 56—and map of eastern frontier of British India, 57, *60.* .

PEMBINA.

Pembina River, British North America, xxx. 271, 274, 294.

Penal settlements proposed, in North Australia, xxvi. 186.

Pen-Aly, Fort, Kazin, South Persia, xxvii. 168.

Penet Pra, Cambodia, xxx. 181.

Peninsulas in Lake Titicaea, xxvi. 214.

Penny, Capt.; his Aretie explorations, xxii. p. lxxii.—finds supposed traces of Franklin, xxvi. 27.

———— Maps, xxi. p. lxviii.

Pentecost Ísland, North-East Australia, xxviii. 5.

Pentelicus, Mount, xxvii. 17, 21, 31.

Penthélé, Burma, xxvii. 78.

Pentland quoted, xxi. 101.

Peopling of Africa, xxx. 115.

Pepys, W. H., Obit. Notice, xxvii. p. exiv.

Percy Island, North-East Australia, xxviii. 5.

Pereira's journeys in the interior of Africa, xxiv. 299; xxvii. 373.

Africa, xxiv. 299; xxvii. 373. Peron Island, North Australia, xxviii. 10.

Perry, Commodore, expedition to

Japan, xxv. p. exiii.

Persia, Geographical Notes taken during a Journey in, during 1849-50. By Keith E. Abbott, Consul at Tehran, xxv. 1. See also xxviii. 149.

Persians at Marathon, xxvii. 16 seqq. Pertinencia silver mine, North-

Western Mexico, xxx. 28.

Peru, Southern, Observations on the Geography of, including Survey of Province of Tarapaca, and route to Chilé by Desert of Atacama. By W. Bollaert, xxi. 99.

Province of Tarapaca in. By Don M. B. de la Fuente, xxvi. 229.

—, Outlines of Geography of. By Don Valentine Ledesma; translated and commented by W. Bollaert, xxvi. 210.

Peruvian current, xxiii. 223–225.

Pescado River, San Salvador, xxviii.

349 seqq.

Peschurof and Others, Notes on the River Amur and adjacent districts by, xxviii. 376. See Amur.

Petchaburi, Siam, xxvi. 75.

Petermann, Augustus, Report of Progress of African Mission of Richard-

PETERMANN.

son, Barth, and Overwegg, xxi. 130. See African Missions.

Petermann, Augustus, Letter to, from Dr. Vogel, xxiv. 276. See African Missions.

-; Notes on the Distribution of Animals available as Food in the Arctic Regions, xxii. 118—bearing on fate of Franklin's Expedition, 118—notion that animal and vegetable life regularly diminish with ascending latitude, a fallacy, ib. —definition of regions containing Aretic fauna, 119—mammals, birds, and fishes, in size and numbers will bear eomparison with the tropies (not in number of species), ib.—a great variation in abundance in different parts of the Aretic region, 120—enormous harvest of the Russian Fur Company in America, ib.—prodigious number of whales north of Behring Strait, 121—immense abundance of animal life in Kolyma District of Siberia, 121—less abundant in Western Siberia, Novaia Zemlia, and Spitzbergen; causes of varied distribution, 121the summer temperature the regulator of amount of life, ib.—lowest mean July temperature in American Aretic regions, 122—in Asiatie ditto, 124—Pole of eold in the Northern hemisphere, is Winter Island, which is also the Pole phytologically, 124 bearing on Franklin's Expedition, 124, 125—tables of thermometrical observations in Aretic regions according to latitude, 126.

On Sir J. Franklin, the Sea of Spitzbergen. and the Whale-fisheries, xxxiii. 129 —Belcher, Maclure, and Inglefield's searches only comprise one-third of the tract in which Franklin must have been arrested, 130—the remaining part which the author deems most important is unsearched; desires to draw attention to the Arctie Sea directly north of us; the Dutch settlement of Smeerenberg, on Spitzbergen, in the seventeenth century; proposed nomenclature, Sea of Greenland, Sea of Spitzbergen. The latter the easiest opening towards the Pole, and not iee-barred, 131—Scoresby's evidence; Beechey's; that of Mr. Crowe, Consul at Hammerfest, 132 —prejudice dates from Wood's voyage in 1676; his failure and misrepresentations, ib.—as Beechey shows,

PETERMANN.

133—no ice met up to Bear Island; yet no suitable expedition has tried this direction, 134—probably a new rich whale-fishery would be opened out; and the Americans will take advantage, if England does not; the achievements and slight cost of Parry's boat-voyage show what might be done with steam on the same route,

Postscript. — Extracts of Letters from captains of whalers and others, testifying to open water east of Spitz-

bergen, 135, 136.

PETERMANN, AUGUSTUS; his Physical, &c., Maps of British Isles, and Map of Borneo, xxi. p. lxviii.; vol. xxii. p. lxxxviii.—his suggestions for an expedition to the North Pole, xxii. p. lxxx.—his Mittheilungen, xxvii. p. cxlix.; vol. xxviii. p. clxvi.

Petersen, Esquimaux interpreter, xxvi.

18.

Petherick, Consul, his expedition to south of Bahr al Ghazal, xxx. p. clxiii.

Petowak Glacier, Baffin's Bay, xxiii.

Petri Kest (Pyrrhi Castra), Laconia, xxvii. 52.

Petriki, Milo, xxii. 217.
Petrin, and Canal, Siam, xxvi. 76;
xxx. 177.

Petroleum in Burma, xxvii. 77. Petrovsk, Amur Coast, xxviii. 390.

Phænos, Trachonitis, xxvi. 50. P'HAING, Burma, xxvii. 75.

Phalasarna, Crete, xxiv. 238. PHANTASMS among East African tribes, xxix. 346.

Рнаваон's Gulf, Red Sea, xxiv. 212. Phaulcon, Constantine, xxvi. 77.

Phayre, Major Arthur P., xxvii. 54, 84, 85.

Pheræ, Laconia, xxvii. 49, 51, 53.

Phiala, Lake, xxiv. 26.

PHIATAK, Siam, xxvi. 76.

Philip (V.) of Macedon, Commentaries on Campaigns of. See Jochmus, xxvii.

Philippi, Dr. R.; Abstract of a Report made to the Government of Chilé, of a Journey into the Desert of Ata-CAMA, in 1853-4, xxv. 158—Caldera; Copiapo; Port of Chañaral de las Animas, 159—copper mines; Agua del Clerigo; mines of El Cobre; terrors of the Desert; correction of Fitzroy's chart, 160—Bay of Chimba; Mejillones; Taltal; description of

PIGAFETTA.

coast; copper, gold, and silver localities, 161—Changos or indigenous people of the coast, 162—roads across the Desert, 163—road from Paposo to Cachinal della Sierra; fresh water amid copious salt deposit, 164—volcano of Hlaska; great salt lake; S. Pedro de Atacama, 165—leave for Copiapo; meteoric iron, 166—sul-167 — Aguas Blancas; Rio Chañaral Bajo, 168 — Tres phur, Frio; Puntas; mineral wealth of the Desert; coal, 169—ancient road of the Incas; extent of the Desert; character; and climate, 170—absence of rain; electrical condition; natural history collections, 171—itineraries; analysis of meteoric iron.

PHILLIMORE, Joseph, D.C.L., Obit. No-

tice, xxvi. p. clxxxv.

Phillips, G., Report on Voyage to Gascoigne River, Western Australia, in connexion with Austin's expedition, xxvi. 269.

- River, Western Australia, xxii. 33.

Philopæmen at battle of Sellasia, xxvii. 39—his campaign against Nabis, 47.

Philostorgius describes the Island Mesene in Euphrates (Abadan) xxvii. 188.

Phitsalok, Siam, xxvi. 75.

Phænicon of Ptolemy, Red Sea, xxiv. 212.

Phosphatic Rocks, West Indies, xxix. p. ccx.

Photographic reduction of maps, xxviii. p. clv.; vol. xxix. p. clii.; vol. xxx. p. cxliii.

Physic in East Africa, xxix. 389.

Physical Geography, Notes on Progress of, xxviii. p. cccix.

— strength of New Zcalanders, experiments on, xxiii. 92.

PIASTLA River, North-Western Mexico. xxx. 8.

PICA, South Peru, xxi. 104, 110.

Pichincha, and Volcano, Ecuador, xxviii. 337; xxx. 66.

PICKABACK riding of Chiefs in Central Africa, xxix. 291.

PIDDINGTON'S 'Hornbook of Law of Storms, xxv. 291.

Piedmont Government surveys, xxiii. p. xcix.; vol. xxv. p. cix.; vol. xxvi. p. cciii.; vol. xxvii. p. cxlvii.

Pieter Maritzburg, Natal, xxii. 138; xxx. 233.

PIGAFETTA; his visit to Borneo, xxiii. 69, 75—on African lakes, xxix. 232.

PIGEON.

Pigeon Peak, Rocky Mountains, xxx.

Phi-chelé Gulf (Peeheli), China, xxviii. 294.

Pilling, or "North Range," China, xxviii. 289.

Phioshan, or "White Tiger" Mountain, Yangtsekiang, xxx. 90.

Phitseuen Valley, Chusan, xxiii. 245. Phitzeshan, Yangtsekiang, xxx. 89.

PILAN'S Berg, Transvaal, South Africa, xxiv. 289.

Phlav Tepe, Balkan, xxiv. 76.

Piles of stones in Andes, xxi. 118.

PILGRIM ship to Mecca described, xxiv. 211.

PILGRIMAGE to Medina and Meeca, by Dr. Wallin, xxiv. 206.

Burton. Sec xxiv. 208; xxv. 121.

Pilo Nisi, off Milo, xxii. 204.

Pilots of the Archipelago, xxii. 224. PILLAR Hills, Yangtsekiang, xxx. 81.

Pim, Lieutenant; his proposed Siberian journey in search of Franklin, xxii. p. lxxiv.

Pina Loo, Cambodia, xxx. 180.

Piña Piña River, east of Andes, xxv. 155, 156.

PINDAR Glacier, Ganges, xxi. 71.

Pine Forests in Eastern Burma, xxvii.

· Island Lake, British North America, xxii. 182.

Pingazi River, Quilimane, xxvii. 377.

Pingeh, Cochin China, xxx. 184. PINNER'S River, Southern Africa, xxii.

Pinus longifolia, xxi. 75.

Pinzon, Martin, one of Columbus's

eaptains, xxvi. 196.

138.

Pintados of South Peru, singular diagrams of great size on the hillsides, 109, 115. Pinto, Ferdinand Mendez, xxvii. 62,

104.

Pepe-head manufacture, East Africa, xxix. 384.

Pher Island, North Australia, xxviii. 6.

Piray and Zara Rivers, tributaries of Amazon, in Bolivia, xxiv. 264.

Pisagua, South Peru, xxi. 107, 117.

Pish-Kuh District, Yezd, Persia, xxv.

PISMIRES of East Africa, xxix. 72.

PITAMA River, east of Peruvian Andes, xxv. 152.

Piura Department of Peru, xxvi. 219, 221.

POINT.

Pizarro, xxi. 101, 102.

Plantains. Sec Bananas.

Plantation House, St. Helena, xxx. 265.

Plato and Aristotle in Central Africa, xxiii. 120.

Plattberg, Orange River State, xxx. 235, 254.

PLAYFAIR, Mount, Central Australia, xxii. 238, 241, 257.

PLINY referred to; xxii. 218, 224—on the Eulæus, xxvii. 123, 133.

Plover, Her Majesty's ship, xxv. 195, 196, 204.

PLOVER Point, Yangtsekiang, xxx. 94. Plutarch cited, xxvii. 20, 36, 38.

Pluto, Mount, Central Australia, xxii. 239.

Pocheng, Matebelé, xxvi. 99.

Pococke on Ruad, xxiii. 155.

Poekilassos, Crete, xxiv. 238, 239. Poem in language of Bunda, Central Africa, xxiv. 273.

Poetry in Central Arabia, xxiv. 185.

Poey, Andrès, of Havannah; Chronological Table of 400 Cyclonic Hur-RICANES in West Indies and North Atlantic; with Bibliography of Hurrieanes, xxv. 291.

Pofadder, near Orange River, xxviii.

Poilyenup Spring, Western Australia, xxii. 2, 53.

Point Backhouse, Great Fish River, xxvi. 25.

- Barrow, north-east of Behring's Straits, xxiv. 241, 243; xxv. 195, 196, 198, 204; xxvi. 31.

-- Beaufort, Great Fish River, xxvi. 21, 22.

- Cala Descanso, Vancouver Island, xxiv. 246.

-- Chatham, Vaneouver Island, xxvii. 269.

- De la Guiche, Arctic America, xxv. 253.

--, Drinkwater, Yangtsekiang, xxx. 77.

Estevan, Vaneouver Island, xxvii. 269.

94.

- Holmes, Yangtsekiang, ib. 276, 280.

— Hood, Western Australia, xxii. 46.

--, Kangaroo, Northern Australia, xxviii. 20.

—, Kean, Victoria Land, xxii. 86.

POINT.

Point Keith, Northern Australia, xxviii.

—— Kellett, Arctic Sea, xxv. 198, 199. -- Lockyer, Arctic America, xxii.

74.

——— Macready, Victoria Land, xxii. 86.

-– Malcolm, Western Australia, xxii. 20.

- Manning, Arctic America, xxv. 197.

—— Meek, Arctic Sea, xxv. 199.

———Menzies, North-Western America, xxii. 192.

-- Ogle, Arctic America, xxv. 251;

xxvi. 23; xxvii. 325.

- Pearce, Northern Australia, xxviii. 10.

— Pechell, Northern Australia, xxvi. 22; xxvii. 324.

Plover, Yangtsekiang, xxx. 94.

——— Pullen, Arctic Sea, xxii. 78. ——— Rashid, East Africa, xxviii. 197. —— Richardson, Arctic Sea, xxvii. 324.

—— Roberts, Columbia, xxvii. 311.

——Tangent, Arctic America, xxv. 197.

—, Tewai, Otago, xxviii. 326. — Ziuk, Sea of Azov, xxvii. 145.

Also see under Punta.

Poison; of the Tsetsé fly, xxii. 173; and see Tsetsé.

-- of caterpillars used on arrows, xxiv. 303.

- of weapons in East Africa, xxix. 378.

- used in Cambodia, xxx. 196.

Poisoned horses, Western Australia, xxvi. 242.

Polar Sea, Reasons for supposing open throughout the year, xxii. 125.

Pole, Route to, by Spitzbergen, xxii. p. lxxix.

Polino, Greek island, xxii. 201, 206. Polliancadowille, Ceylon, xxvii. 332.

Pollinarua, Ceylon, xxvii. 330.

Polo, Marco, xxi. 65—his stories of the Magi, xxv. 6—his city of Camandu in Kerman, 47, 56—his route from Kerman to Hormuz, 56, 63.

Polonia Roads and Passage, Milo, xxii.

Polosatik, Amur coast, xxviii. 390.

Polyandry and kindred customs, xxi.

Polybius cited, xxvii. 2, 6, 8, 11, 36.

POPULATION.

Polygamy in Negroland, xxx. 124.

Polygonum Flat, Northern Australia, xxviii. 63.

Polynesian Islands, Questions connected with language of, xxi. 239.

Polynia, or open Polar Sea, xxv. 195, 203; xxviii. 280, 373.

Pombé or millet beer of East Africa, xxix. 54, 202, 366.

Pond Bay Esquimaux, and their stories of Franklin's ships, xxvi. 28, 30.

Pong, kingdom of (alleged ancient, in North Burma), xxvii. 88.

Pongos, or Rapids of Upper Amazon Rivers, xxvi. 215.

Pongsom River, Cambodia, xxx. 183. Pontcellamot, Valley of, Upper Savoy, xxv. 189.

Pontcharra, Upper Savoy, xxv. 185.

Ponteamas, Cambodia, xxx. 183. Pontianak State, Borneo, xxiii. 81.

— River, Borneo, ib. 70.

Pookow, opposite Nanking, xxx. 80.
Pools of Solomon, xxvi. 58.
Poole, Henry; Report of a Journey in Palestine, xxvi. 55—Beyrut; Jerusalem, 56—Mount Gerizim, its height, 57—Nablus; return to Jerusalem; Nabi Musa, 57—Dead Sea, 58—aneroid observation for depression; return to Jerusalem; Hebron; Rama, 59—Plain of Usdum, 60— Cave of Usdum; stalactites; wild fowl in Dead Sea; ride along west-ern shore; fish in the Dead Sea (?), 61—ride south; Bedouin attack at south end of sea; geological appearances; ruins; the peninsula El Lisan or the Tongue; ruins; explores the peninsula, 63—ducks on the sea; ruins of sugar-mills, 64 — site of a populous city; return to Usdum and up the west shore; blocks of rock salt; the sea lowered; remains of extensive city at Em Berhek, 65—Wadi Sebbeh and ruins; Masada; Wadi of Drippings, 66—Engedi; brook Kedron, 68—ruins of Ghomran; Jericho, 69 —the Jordan; return to Jerusalem, 70—fever; departure.

Popocatepetl ascended by Mr. Thornton, xxi. p. xcii.

Population of Friendly Islands, xxii.

of Borneo, attempt to estimate, xxiii. 84.

——— of Switzerland. See Chaix, xxiv. 313.

of Burma, xxvii. 84-87. of Pegu, *ib*. 85.

POPULATION.

Population of Aracan, ib. 86.

—, former great, of Ceylon, xxvii. 329.

-, Druze, xxviii. 263.

- of Southern Otago, xxviii.

- of Yangtsekiang Valley, xxix. p. clxxiii.

of Negroland, &c., xxx. 123. Porcelain Tower, Nanking, no longer exists, xxx. 96.

Porco, Mountain knot of, Bolivia, xxvi. 212.

Porealidéré River, Rumilia, xxiv. 42. Port for Quito, search for a, xxx. 68.

-- Albany, Northern Australia, xxviii. 7.

- Bauga, Vancouver Island, xxvii. 269.

- Bowen, Prince Regent's Inlet, Arctic Sea, xxiii. 123.

-- Brooks, Vancouver Island, xxvii. 288.

- Clarence, Behring Straits, xxv. 196.

- Cooper, Middle Island, New Zealand, xxi. 33.

— Cortez, Honduras, xxx. 63.

— Discovery, Washington Island, xxvii. 318.

– Egmont, Falkland Islands, xxvi. p. eci.

-- Elliott, Murray River, xxv. 178. -- Escoces, Darien, xxiii. 183; xxvii. 193, 201.

-- Essington, xxvi. 185; xxvii. pp. clxxii., clxxvi.

- Gregory, Western Australia, xxvi. 271, 272.

- Imperial, Amur Coast, xxviii. 439.

- Keats, Northern Australia, xxviii. 16.

-- Lloyd, Bonin Islands, xxvi. 232. -- Nelson River, British North America, xxii. 188.

- San Juan, Vancouver Island, xxvii. 269, 270, 284.

- San Raphael, Vancouver Island, xxvii. 288.

-- Townsend, Washington territory, xxvii. 317.

-- Yaqueson (i. e. *Jackson*), Samana, San Domingo, xxiii. 275.

Ports Rietz and Tudor, East Africa, 192.

- of Peru, xxvi. 216.

PORTER, Rev. J. L.; Memoir on Map of Damascus, Hauran, and Lebanon, constructed from personal survey,

POTISAT.

xxvi. 43—neglect of Damascus by geographers; origin of survey; the Barada, 44—its fall; Helbon; exploration of the sources of the Awaj (Pharpar); De Saulcy's errors, 45 explorations of eastern slopes of Antilibanus, north and north-east of Damascus, 46—Saidnaya (Dænaba); Yabrue (Jabruda), 47 - Maksura (Thelsea); lower course of rivers of Damascus; the three lakes, 48 journey to Bashan; equipment for survey, 49 — Batanea; the Safa; Shuka (Saccæa); positions on the Lejah, 50—Greek inscription at Suleim (Neapolis?); Roman road; Busrah (Bozrah); radiation of ancient roads, 51—Śulkhad (Salcah); Kureiyeh (Kerioth); the Lejah, 52—its structure; journeys to Libanus and Antilibanus, 53—bearings from commanding points and correction of general errors, 54—great correction in position of Antilibanus; construction of the map, 54, 55.

PORTER, Rev. J. L., xxiv. 28—his corrections of Syrian geography, xxvi. p. ccxvii.—his travels in Bashan,

xxviii. 229, 230. Porter and Lane, Messrs., employed on Kelley's Darien survey, xxvi. 175.

Porter Range, North-Eastern Australia, xxviii. 120.

Porters, East African, xxix. 406, 408 seqq. and Burton passim.

Porto di Malta, Milo, xxii. 202.

-, Silva, Journeys of, across Africa from Benguela to Ibo and Mozambique. By James Macqueen, xxx.

Portuguese; slave-dealing, xxii. 171 ditto at Katongo on Upper Zambesi, xxiv. 298—explorations in Africa, xxv. p. exviii.; vol. xxx. p. elxiv.arrival at Mozambique, xxix. 1—settlements on coast above Mozambique, xxx. 159 — military force in East Africa, 160.

Pospeloff, M., on Aral survey, xxiii. 95, 96.

Possession Creek, Central Australia, xxii. 236.

Postal lines of steamers to Australia and East Africa. See Stokes, xxvi. 183.

Potaimat, Cambodia, xxx. 183.

Potatoes in New Zealand, xxi. 26.

Poteron, North-Western Mexico, xxx.

Potisat, Cambodia, xxx. 180.

POTRERO.

Potrero Plain, San Salvador, xxviii.

Potschefstroom, Transvaal, xxx. 241,

Pot-stone of Esquimaux, xxiii. 140.

Pottery in East Africa, xxix. 383.

Poultry; in Chusan, xxiii. 249—in East Africa, xxix. 394.

Poungdé, Pegu, xxvii. 79.

Pountoung River, Burma, xxvii. 80.

Pouqueville's Travels, xxvii. 2, 5, 6,

Powktau, Aracan, xxiv. 96, 101.

Poyang Lake, China, xxviii. 291; xxx. 85, 86, 97, 98.

Prakrama Tank, Ceylon, xxvii. 332, 334.

Prassu Nisi Island, near Milo, xxii.

Precipices of conglomerated alluvium

in Gugé, Tibet, xxiii. 12, 18.

Premiums and Testimonials assigned by the Society—1851: fifty guineas between Dr. G. A. Wallin and T. Brunner, xxi. pp. vii., liii.—1855: twenty-five guineas in instruments to C. J. Andersson, xxv. p. viii. lxxviii.—1856: a watch to Corporal Church, Royal Sappers and Miners, xxvi. p. viii., clxix.—1859: a gold watch to J. Macdougall Stuart, xxix. pp. viii., c.

Preparis Islands, Bay of Bengal, xxvii. 65.

PRESERVATION Harbour, New Zealand. xxi. 25.

Pretorius, Andrew, the Boer leader, xxiv. 289; xxx. 242.

Pretorius's Kloof, Orange River State, xxx. 237.

Prevost, Comm. J. C.; Official Report of exploring party of H.M.S. Virago, sent to cross Isthmus of Darien, xxiv. 249—enter Darien Harbour, and despatch of boat parties; ascent of Savana River; commencement of land journey, 250—reach the Chuqunaque, 253—the sea seen, 254—party left in charge of stores, whilst the others descend the Cordillera, but are obliged to return, 255—find three of the store party murdered, ib.—reach the boats again; small distance accomplished,

xxvi. 181 — his expedition referred to, xxvii. 193-195, 198, 199, 203.

Pribylow's immense destruction of animals in the Arctic Regions, xxii. 120.

PROJECTION.

PRICE, Rear Admiral D., Obit. Notice, xxv. p. xcii.

Prices; in Milo, xxii. 222—at Agadez, xxi. 148.

Prince Albert, Lady Franklin's vessel, Report by Mr. Kennedy, xxiii. 122.

Prince Albert Land, Arctic Sea, xxiv.

- Edward's Bay, Arctic

Sea, xxii. 91. — Frederick Henry Island, New

Guinea, xxviii. 265.

of Wales Mountains, Smith's

Sound, xxiii. 141.

- Channel, Torres Straits, xxvi. 184.

- Island, North Australia, xxviii. 7.

- Strait, Arctic Sea, xxv. 195, 198-200.

— William Sound, xxiii. 232.

Princess Royal Islands, Arctic Sea, xxiv. 243; xxv. 198.

– Victoria Adelaide Cape, xxii. 88.

Principalities, Malay, in Borneo, list of, xxiii. 81.

Pritchard, Consul in Samoan Islands, xxi. 222, 224.

PRITCHETT, GEORGE JAMES; Explorations in Ecuador during 1856 and 1857, xxx. 64—the limits of the republic; provinces; Guayaquil, 65—ascent towards Chimborazo; Huaranda; Ambato, 66—Cotopaxi; Quito, 67—churches; population, 68—search for a more convenient post than Guayaquil; proceed to Ibarra; then coastward through dense forest, 69 embark on River Cachabi and reach the coast at La Tola; former proceedings with regard to this line; the Pailon Harbour, 70—return to Quito; visit to the back country towards the Amazons; and then from Cuenca to the Pacific port of Naranjal, 71—return to Quito by Guayaquil; visit to Canelos district on River Pastasa (Tributary of Amazons); at Baños meet Mr. Spruce; Notes by that gentleman, on climate and products; traditional gold of Llanganate, 73—gold of Bombonaga; navigation of the Amazons, 74—immense capacities of the country.

Projection of the Sphere, On a new; by Sir J. F. W. Herschel, xxx. 100.

Used in the Topographical Department of the War Office for maps embracing large portions of the

PROME.

earth's surface. By Col. Sir Henry JAMES, XXX. 106.

Prome, Pegu, longitude of, xxvii. 60, 79.

Promise Plains, North Australia, xxviii. 139.

Pronge, Cape, Amur Mouth, xxviii. 389.

Protok River, Sea of Azov, xxvii. 148. Provata, Mount (Olympus), Laconia, xxvii. 35.

Provato Bay, Milo, xxii. 203. Providence Hill, North PROVIDENCE Australia, xxviii. 12.

Province of Peru, xxvi. 219, 221.

Prussia, Geographical Work in, reviewed. See German.

PRUTH River, XXX. 162.

Psychology of the East African Races,

xxix. 328 seqq.

Ptolemy, xxviii. 54, 60, 73—on the Eulæus, 123, 124, 133—mentions Apphana Island (Abadan), on Euphrates, 188—latitude of, in Central Africa, xxx. 135.

Publications, Geographical, noticed. See Abstracts of Presidential Addresses; and also see Atlases.

Puchultisa, Volcancitos or Geysers of, South Peru, xxi. 120.

Puerto de los Colorados, San Domingo, xxiii. 270, 274.

- Escondido, Samara, San Domingo, ib. 274.

- Frances, Samara, San Domingo, ib.

— Pinas, Darien, xxvi. 178. Puget Sound, Washington Territory,

xxvii. 287, 315. — Company, *ib.* 273, 281, 315.

Pul, Amur, xxviii. 388, 390, 435.

Pullen, Point, Arctic Sea, xxii. 78. Pullo Tribe, Central Africa, xxx. 119. Pulo Territory (probably same name as preceding), Chadda River, xxv. 117.

Pulo Kalamantan, alleged native name of Borneo, xxiii. 69.

Pulses of East Africa, xxix. 400.

Pulteney Town Harbour, Wick, xxvii. 230.

Puma, The, xxi. 119.

Puna, South Peru, xxi. 103.

Punishments in East Africa, xxix. 360,

Pungo Andongo, inland from Angola, xxv. 231, 233; xxvi. 121; xxvii. 353. Puno, Peru, xxvi. 211, 214, 220, 227. Punta Ardita, Darien, xxvi. 178, 179.

— Arenas, Darien, xxiii. 191.

QUAKERS.

Punta Arenas, Straits of Magellan, XXV.

- Balandra, Samana, San Domingo, xxiii. 270, 274.

- Burica, Pacific side of Isthmus of Panama, xxiv. 256.

— Cacao, San Domingo, xxiii. 271. — Caribana, Darien, xxiii. 191.

- Cayman, Viejo, Darien, xxiii. 192.

- del Capitan, Samana, San Domingo, xxiii. 274.

- del Cerizo, Samana, San Domingo, ib. 272.

- del Livio, Samana, San Domingo, ib. 271.

- del Mangle, Samana, San Domingo, ib. 271, 274.

-- Gorda, Samana, San Domingo, ib. 271.

-- Jicaco, San Domingo, ib. 270, 274.

Purang, a District of Tibet near Lake Manasarowar, xxiii. 9, 10, 12, 16, 21, 25, 30-32, 35, 44, 48, 65—snowfall in, 67.

Purghan, Kazin, South Persia, xxvii. 168.

Purik and River, Tibet, xxiii. 14, 16, 25, 27, 36, 38, 40, 42, 43—snowfall in, 67.

Purus, on the supposed Sources of the River, one of the principal tributaries of the Amazons. By C. R. Markham, xxvi. 151.

Pusey, Philip, M.P., Obit. Notice, xxvi. p. clxxxv.

Pushté, Shirin, Kerman, Persia, xxv.

Putrid Sea. See Osborn, xxvii. 133. Putrigandi, Isthmus of Darien, xxvii. 195.

Pwons, a race of North Burma, xxvii. 68.

Pyramid Mountain, Rocky Mountains, xxx. 299.

Pyrrrhi Castra, Laconia, xxvii. 49, 51, 52.

Q.

QUAACHUKA River, Vancouver Island, xxvii. 284.

Quackoll Indians, Vancouver Island,

ib. 295, 297. Quail Island, North Australia, xxviii. 9. QUAKERS of South Africa (so Livingstone calls the Bakoba), xxvii. 369.

QUANDO.

QUANDO River, South Central Africa, xxx. 162.

Quando or Coanga River, eastern limit of the Portuguese territories in South-Western Africa (tributary of Congo?), xxv. 225, 227, 235; xxvi. 80-82; xxvii. 349, 352, 353.

Quanza River, South Central Africa, xxiv. 274. See Counza.

Qu'Apelle Lakes, British North America, xxx. 275.

QUARANTINE Laws, wisdom of abolition of, xxiv. 69.

Quarries at Milo for millstones, xxii. 215.

Quebes, fountain, South Africa, xxii. 137.

Quebrada of Lecaros, Silver Mine, Tarapaca, xxvi. 229.

xxi. 109, 115.

Quedah (Kadáh), Malay State, xxvi. 72. Queen Charlotte Islands, British Columbia, xxiv. 248; xxvii. 297.

Quelepa, San Salvador, xxviii. 357.

Queralapa River, San Salvador, xxviii. 356.

Querua, South-East Africa, xxx. 145. Quezalapa River, San Salvador, xxviii. 352.

Quezatlepeque, San Salvador, xxviii. 356.

Quezaltenango, Guatemala, xxviii. 361.

Quibbo, on River Atrato, xxvi. 174, 175, 180.

Quiboque, Queboque, Kibokue, Quioco, South Central Africa, xxiv. 274, 275; xxvi. 124, 128; xxx. 150.

Quiganga, South-East Africa, xxx. 145; also see Quissango.

Quicema, South Central Africa, xxx. 142.

Quicenga Mountain, South-East Africa, xxx. 143.

Quichua language, Peru, xxvi. 219.

Quick Fontein, Little Bushmanland, xxviii. 173.

Quicksilver mines of Atacama, xxiii. 199.

Quie River, South-West Africa, xxx. 2.
162.

Quiengo South Central Africa, xxx. 137.

Quillimane, South - East Africa, xxvi. 78, 79—the river at, xxvii. 377—its unhealthiness, 378, 386; xxx. 157.

RAE.

Quilliagua, Pica, South Peru, xxi. 115. Quillengues, South-West Africa, xxx. 161.

Quiloa. See Kilwa.

Quimpasa, Camiña, South Peru, xxi. 117.

Quin, Capt. Michael; Notes on the Bonin Islands, xxvi. 232—taken possession of by Beechey, 232 settlers, their number in 1837; productions, 234—animals; sharks caught by dogs; average state of weather.

Quinhama, South Central Africa, xxvi.

129; xxx. 150, 151.

Quinquina Island, Chilé, xxv. 172.

Quintus Curtius on the Euleus, xxvii. 133.

Quipembe, South-East Africa, xxx. 145. Quipisca, South Peru, xxi. 105.

Quisamba, South Central Africa, xxx. 150.

Quissango, South-East Africa, xxx. 156. See Quiçanga.

Quisomaje River, South Central Africa, xxvi. 124.

Quisulongo River, South Central Africa, xxx. 137.

Quito, Éxcursion from, to the Napo River. By Dr. William Jameson, xxviii. 337.

——, xxvi. 210; xxx. 65, 67, 70, 71. —— River, Darien, xxvi. 175. QUININI River, Rio Negro, xxiii. 214. QUIZEMBA River, South Central Africa,

xxvi. 122.

R.

RABA, Rabba, on the Kwora, xxiv. 286; xxx. 228, 230.

Rabai Range, Mombasa, xxviii. 193; xxix. 23.

Rachgea, or Karmunsa River, Cambodia, xxx. 183.

Radawigi Oya, Ceylon, xxvii. 340.

Radde, M., on the Dauro-Mongolian Frontier of the Trans-Baikal, xxviii. 411; see Amur. On the Kinghan Range, 418—referred to, clxii.

Radhwah, Jibal, near Yambu on the Red Sea, xxiv. 215; xxv. 136. Radstock, Viscount Admiral Lord,

Radstock, Viscount Admiral Lord, Obit. Notice, xxvii. p. cxiii.

RAE, Dr. JOHN; Journey from GREAT BEAR LAKE to WOLLASTON LAND, XXII. 73 (in search of traces of Franklin;) left Fort Confidence on Great Bear Lake, 25th April, 1851, 73—reach Kendall River Station, 74—RichardRAE.

son Bay; starts across the ice to Port Lockyer; Douglas Island; reaches Wollaston Land and turns east along the shore; hares and partridges, 75—Richardson Islands named; deer; reaches ground traversed by Dease and Simpson, and returns to Douglas Island, 76—starts westward; meets with Eskimaux, 73—reaches Cape Back, furthest point, and turns; repasses the ice to North American coast near Cape Krusenstern, 80—detail of provisions consumed on the journey; câche eaten by a bear; musk-bull; geese, partridges, and lemmings, the last very fat and good, 81—table of distances travelled daily, 82—Kendall Station reached, 5th June.

RAE, Dr. John; Recent Explorations along south and east coast of Victoria Land, ib. 82—15th June, starts in boats down to Coppermine River; great haul of salmon near mouth of the latter, 83—starts in boat along coast eastward; Cape Barrow, 84 cross Coronation Gulf; Esquimaux at Cape Flinders; Cape Alexander; succeeds in crossing to Victoria Land; great haul of salmon, 85—fine river, reaches Cape Colborne and commences examination of untraced coast; drifted poplar, 88—and pine, 89—snow-owls; pyrites, 90—leaves the boats for a land journey; bad ground; unable to proceed; return from Point Pelly, 91—rejoins the boats; deer and geese; finds fragments of wood, &c., with Government mark, 93—reaches Cambridge Bay again and continues running west along Victoria coast, 94—reaches the Coppermine River, 95—consumption of provisions; ascent of river, in very dangerous state; ascends the Kendall, and succeeds in taking a boat across to Great Bear Lake, 96—proceeds to Fort Simpson; conduct of the men.

awarded to, xxii. p. lvii. — reference to his services, and the traces found (see next entry) of Franklin, *ib.*, also xxiii. p. lxxvi.; vol. xxv. pp. xciv. 194, 202; xxvi. pp. ccvi. 26, 28, 31, 32.

information regarding Franklin's missing party, xxv. 246—narrative commences from Repulse Bay; preparations for winter, 247—journey to Cape Lady Pelley to make câche, 248

RAKAS.

—journey to trace west coast of Boothia, *ib.* — Barrow Lake, 249—Pelly Bay; Esquimaux, 250—information given regarding white party, *ib.*—and dead bodies, 251—relics obtained; Castor and Pollux River, 253—Murchison River, *ib.*—Cape Porter; extract of tea; Point Dryden; return, 254-256.

Raffles's estimate of gold washed in Borneo, xxiii. 74.

Rafidieh, Palestine, xxiv. 10.

RAGGED, Mount, Western Australia, xxii. 19.

RAHDAR Valley, Fars, xxvii. 115.

RAIKHANDA (Ganges feeder), xxi. 64.

Railway, Pacific. See Whitney, xxi. 86, 91—Synge, xxii. 174; xxiv. p. ci.; vol. xxvi. p. ccxx.; vol. xxvii. 315. See also Pacific.

Honduras Interoceanic, xxx.

——— in Amur Land, xxviii. 388.

RAIM, or Aralsk, Sea of Aral, xxiii.

RAIN Clouds, Arab classification of, xxiv. 216.

Rainfall; in Imeretia, xxi. 7— in Khasya Hills, enormous, xxii. p. lxxxix.— in Ladak almost absent, xxiii. 67—at Jerusalem, xxvi. 57— causes of excessive, on windward faces of Tropical Ranges, xxi. 70— diminution of in South-Western Africa, xxv. 102—and supposed in Bashan, xxviii. 257.

Rainless Country (in South Peru), xxi. 100—Atacama, xxiii. 197. See also Ladak in preceding.

RAINMAKERS in East Africa, xxv. 213—xxix. 348.

Rains; in Kumaon, Himalya, xxi. 73 in Damara Land, xxii. 144—in Chusan, xxiii. 247.

RAINY River, British North America, xxii. 177.

- Lake, British North America, ib. and xxx. 268, 270.

Raji Tribe, in Kumaon, xxi. 85.

Rajputs, the Khasyas of Kumaon are, ib. 83.

RAKAIN, or People of Aracan, xxvii. 63.

RAKAS TAL, Lake beyond Himalya, xxi. 63; xxiii. 28, 48.

RALEIGH'S.

RALEIGH'S voyage to Spanish Main, xxiii. 179.

Rama, near Hebron. See Rameh.

— Quarries at Milo, xxii. 215.

RAMADIN, Arab Tribe, xxv. 287. Ramah of Asher, xxiv. 5.

of Benjamin, xxiv. 17.

Rameh, in Galilee (Ramah of Asher), xxiv. 5.

—, near Hebron, vast remains at, xxiv. 17; xxvi. 59.

—, Ramah, of Napthali, xxvi. 5, 6.

Rameses, of Exodus, xxiv. 212.

RAM-HORMUZ, Ruins of, xxvii. 111, 112 (called there Ormuz).

Ramin, near Samaria, xxiv. 10.

Ramji, Sons of (Burton and Speke's escort), xxix. 13, 15.

Ramleh, Palestine, xxiv. 10; xxvi. 56. Ramsay, Sir James, Obit. Notice, xxix. p. exxxiv.

Randell's Voyage on the Darling, xxx. p. clxxvii.

Rangoon Pagoda, xxvii. 79.

RAPER, Lieut. R.N. See Hints to Travellers, xxiv. 328-334.

-, Obit. Notice, xxix. p. exxvi.

RAPIDITY of the Arve River, xxvii. 226. - Rhone, *ib.*, 227.

Ras in Abyssinia, his power, xxv. 215. — Al-Kheima, Arabia, xxiv. 167.

- Mohammed, Sinai Peninsula, xxiv. 226-227.

Rasheiya, Syria, xxiv. 27; xxvi. 44.

Rasheiyat-el-Fukhar, Syria, xxiv. 27. Rashid Point, East Africa, xxviii. 197.

RASHIDY Arabs, xxvi. 66. RASIGANAGAH Lake, B British North America, xxx. 270.

RASPADURA, alleged canal between Rivers of Darien, non-existent, xxvi. 175, 176.

Rassova, Dobrudsha, xxvi. 208. Rat Indians, North-Western America, xxv. 202.

- Portage, Winipeg River, xxx. 271. RATS, large in Arabia, xxiv. 189.

— of various sorts in East Africa, xxix. 114.

RATE of travelling in country east of Angola, xxvii. 350.

- by caravan in East Africa, xxix. 420.

RATTANS, XXI. 16—export of from Borneo, xxiii. 75.

Rayditza, Bulgaria, xxiv. 70.

RAVENSTHORPE Hills, Western Australia, xxii, 33.

REDBERRY.

RAVINES, remarkable sandy, of Quipisca, South Peru, xxi. 105.

- of Tibet Plateau, xxi. 63; xxiii.

32, 33.

RAWAN RHAD, Lake North of Himalya,

otherwise Rakas Tal, q. v.

RAWLINSON, Col. Sir H.; Notes on Ancient Geography of Mohamrah and its vicinity, xxvii. 185—recentness of the alluvial site; Ur of the Chaldees once a sea-port; other evidence of advance of the land; Teredon or Diridotes, 185—Obilla, Havila, the Phison, and Paradise; Spasini Charax, 187chronological succession of emporia along the Euphrates valley, 188—Island of Abadan, 188—Mesene; unfortunate error in Macdonald Kinneir's map, 189—the Kerkha and the Karun, and their changes; the Eulæus; canals from the Euphrates, 190.

- on Biblical cities of Assyria and Geography of Lower Tigris, notieed, xxi. p. lxxix.; his statement as to heat at Baghdad, xxiii. 103; xxvii. 120—as to height of Jibal Judi and

Demawend, xxix. p. clxx.

RAYAS Mine, Mexico, xxx. 51.

RAYMOND, Archdeacon, Obit. Notice, xxx. p. exix.

REAL del Monte Mining Company, Mexico, xxx. 48, 50.

Rebat, between Tehran and Kum, Per-

sia, xxv. 3.

REBMANN, Missionary, and Krapf; their discoveries in Eastern Africa, xxi. p. lxxxvii.; vol. xxiii. 105; 116—his journeys and discovery of Kilimanjaro, 118—on Lake Nyassi, xxv. p. xcvi.; his explorations, xxix. 2, 3, 11, 12; xxx. 128. See Mombas Mission.

Recherche Archipelago, Western Austra-

lia, xxii. 20, 23.

Recruit Flats, Western Australia, xxvi.

242, 243, 246.
Red Fly of Somal country, xxv. 141.

- River and Colony, British North America, xxii. 179; xxx. 267, 271.

-- SEA, On the Physical Geography

veys, xxviii. p. cxlix.; soundings, xxviii. p. cxlix.; vol. xxix. p. cxliv.

REDBERRY Lake, British North America, xxx. 278.

REDDIE River, British North America, xxx. 282, 287, 308, 312.

REDEN.

Reden, Baron von, Obit. Notice, xxviii. p. cxl.

REDFIELD; on Arctic current, cited, xxiii. 219-his discovery of Rotation of Hurricanes, xxv. 291, 292.

Red-нот Shot, xxvii. 108.

Redondo Mountain, San Salvador, xxviii.

Redoubt Kalé, climate of, xxi. 5, 7, 11,

Redshirt Mountain, North-East Australia, xxviii. 131.

Reed-towns of Marshy Babylonia, xxvi.

Reenkreek, Orange River, xxviii. 174. REGIMEN against great heat (Burton), xxiv. 214.

Reid, Major-Gen. Sir William; on law of storms referred to, xxv. 291 on Mediterranean winds, xxvi. p. ecxxxii.; Obit. Notice, xxix. p. exxx. --, Dr., on Meteoric Iron of Atacama,

xxi. 129.

Reindeer, xxii. 119—in North-East Siberia, 125.

- skin and horns at Kiakhta, xxiv. 307.

Rejang River, Borneo, xxiii. 71.

Relapse of tame animals into wild characters, East Africa, xxix. 331.
Religion of Central African Tribes,

xxx. 127.

— of East African Races, xxix. 338 seqq.

—— of Druzes, xxviii. 262.

RENDEL, J. M., c.E., Obit. Notice, xxvii. p. exi.

Rennell on Burmese Geography, xxvii. 54—his investigations of ocean eurrents, xxiii. 217, 218, 239.

— Mountains, Niger, xxx. 228. Rennie, Capt. John, I.N., his survey of the Irawadi, xxvii. 57.

RENOSTER River, Orange River State, xxx. 237, 239, 240, 242, 254.

Renovation, ship, sees vessels on Newfoundland Bank, supposed Franklin's,

xxvi. 32. Rent in Chusan, xxiii. 246.

Renthieh, Palestine, xxiv. 11.

Rephaim, Plain of, Palestine, xxiv. 17 the ancient, xxviii. 228, 256.

Replat on Hannibal's Passage of Alps, xxv. 184, 186.

REPTILES of Louisiade Archipelago, xxi.

Repulse Bay, Arctic America, xxv. 246, 255.

RESCUE of Englishwoman near New Guinea, xxi. 13.

RINK.

Retreat Well, Western Australia, xxvi.

Retribution, H.M.S. See Oliphant, XXX.

75; and Blackney, xxx. 93.
Revello, Father, Missionary explorer east of Andes, xxv. 155.

Revenue Survey of India, xxv. p. exii. Reventasones or "Burstings" of Meteoric Iron in Atacama, xxi. 128.

REVUBUE River, Zambesi, xxvii. 378. REVUE River, South of Zambesi, xxx.

Rewa River, Fiji, xxvii. 234 seqq. Reyhan, Kerman, Persia, xxv. 27.

Rhamnus, Greece, xxvii. 16.

Rhinoceros, believed not to be found in Borneo, xxiii. 75—encounter with (Andersson), xxv. 83; xxix. 75—in Cambodia, xxx. 197.

— horn, Zanzibar, xxix. 445. Rhinoster Berg, South Africa, xxviii. 154. See Renoster.

Rhodoa, Fezzan, xxiv. 279.

Rhone, Tributaries of, xxvii. 224 volume of, 228.

Rhubarb, Trade in, Kiakhta, xxiv. 310. Ri = Mountain in Tibetan, xxiii. 26.

Riblah, Ribleh, Syria, xxiv. 32, 33; xxvi. 53.

Rice, wild, British North America, xxii. 177—culture in Chusan, xxii: 252 indigenous in North-West Australia, xxviii. 147—in East Africa, xxix. 397.

Richardson, Sir John, eited, xxii. 122, 188.

-, James, African traveller, xxi. 130, xxii. 131—his death, xxi. 219.

Burmese and Shan countries, xxvii. 55, 78, 86, 87, 93.

- Islands, Arctic sea, xxii. 75, 95.

- Bay, Coppermine River, xxii. 74.

Ridge River, British North America, xxii. 182.

RIDLEY, Mr., of Roe's Expedition in Western Australia, xxii. 3, 7 et seqq.

-, Mountain, Western Australia, xxii. 12, 13.

Rietz, Port, East Africa, xxviii. 192.

Riley Bay, Arctic Sea, xxii. 84. Ringold, Capt. U.S.N., Californian Coast Surveys of, xxi. p. lxxxix. Rink, Dr. H., of Copenhagen. On the

large Continental Ice of Greenland, and the origin of Icebergs in the

N 2

RINK.

Arctic Sea, xxiii. 145—downward movement of ice masses or glaciers, ib.; lowest level of such ice-transport in Alps, and in Greenland, 146—and Iccbergs and their mass; general opinion that they have been detached from glacier valleys, 147—yet no one has mentioned seeing the actual detachment of large masses; nor accounted satisfactorily for the rarity of Icebergs at Spitzbergen abounding in glaciers, ib.; the author's opportunities of observation; his deductions. The vast masses of ice issuing from limited spaces of coast are supplied by yearly increase of ice over a large tract and not merely by the ravine from which the glaciers proceed; iceberg formation therefore requires a tract of land with concentration of drainage, 148—an inland movement thrusts the ice forward in the course of the obliterated river-bed into the sea; space for the generation of large icebergs on these principles is only found in the broader part of Greenland, ib.: character of the West Greenland coast; deep friths, islands and peninsulas form the outskirts terminating on a continent covered with a continuous table of ice 800 miles in breadth, 149—details of phenomena, 150—calf-ice, ib.; inland ice-table, 151 —principal ice-friths of the coast named, 152—the ice protruded far along the sea bottom before it calves; icebergs therefore rise out of the sea rather than break from the coast, ib.; motion of the ice-currents inland, 153—structure of iceberg ice, ib.— 154.

RINK, Dr. H., of Copenhagen. On Dr. KANE'S supposed discovery of the NORTH COAST of Greenland and of an OPEN POLAR SEA, XXVIII. 272—doubtful theories in Dr. Kane's book; the Humboldt Glacier, one of the usual Greenland icefords, 274—the open Polar Sea; Pctersen's account of it; probably a mere "stream-hole," 275 doubts about lands laid down from such cursory observation; quotation of Kane's views of interior ice of Greenland, 276—their hastiness and unfounded character, 277 — further criticisms; small basis for the theory of the open sea, 280-286—criticisms on the detailed coast-lines represented, 286—a valuable work injured by these too ambitious appendages, 287.

ROBINSON.

RINK, Dr. H., of Copenhagen, xxiii. p.

Rio Blanco, Honduras, xxx. 62.

— Branco, Tributary of Rio Negro, xxiii. 213, 214.

-- de las Culebras, Samana, San Domingo, xxiii. 274.

--- Frio, Atacama, xxv. 167.

--- Grande, North-West Mexico, xxx. 37, 42.

--- Magua, Samana, San Domingo, xxiii. 274.

-- Mayo, North-West Mexico, xxx. 27.

— Montata, Napipi, Darien, xxiii. 194.
— Negro, On the. By Alfred R. WALLACE, XXIII. 212.

———, xxx. 71.

RIPON, Earl of, Obit. Notice, xxix. p. cxxi.

RITE of friendship and alliance among Dyaks, xxiii. 79. See also Brother Oath of East Africa, xxix. 89, 267.

RITTER, Karl, his view of the slope of Arabia, xxiv. 173—Obit. Notice of, xxx. p. cxx.

RIVERO and Tschudi, Antiguedades

Peruanas, xxiii. p. exxiv.

RIVERS and River-beds in Damara Land, xxii. 144, 147—of the Makololo country, their large and perennial flow, 167—of Tibet, xxii. 34—their prevailing direction, 37 — lengths, volumes, 40—falls, 44, 45—of Borneo, xxiii. 70—of Peru, xxvi. 214—of San Salvador, xxviii. 354.

-, Hints on collecting informa-

tion regarding, xxiv. 354.

Roads, ancient, in Bashan and Moab, xxviii. 239, 250, 255 — in East Africa, xxix. 28—of the Incas in Atacama, xxv. 169. See *Roman*.

ROBBE Bay, or Port Nolloth, South Africa, xxviii. 173.

Robbers in Mexico, xxx. 13, 46, 49.

Robego, Robengo, White Nile, xxix. 276; xxx. 133. Robey Range, North-East Australia,

xxviii. 120.

Robinson, an Indian Chief, Darien, xxvii. 194.

-, Rev. Dr. E., E. Smith and others. Outlines of a Journey in Palestine, xxiv. 1—arrival at Beirut, and excursions thence, 1—start for Jerusalem, 2—Sidon, traces of Roman road, ib.; start for Lebanon, 3—Jerju'a; ancient water channel in the Zaherany; view from Jerju'a; Castle of Belfort, 4—far older than the Crusades; Castle of Tibnin (Crusaders'

ROBINSON.

Turinum); Ramah of Asher, 5—remains of a Temple; Kefr Birim; remains of synagogues, 6—Meiron; Bukei'a, a village of agricultural Jews; Ramah of Naphtali; Sellameh (Selane of Josephus), 7—'Arrabeh (Araba of Jos.); Suklinin and Kubarah (Sogane and Gabara); Kabul and 'Amkah (Beth Emek) of Asher, 8— Jefat (Jotapata); no trace of fortress; Cana of Galilee; Beit Lahm (Bethle-hem of Zabulon); Tell Kaimon (Camon of Eusebius), 9—the Kishon; Lejjun; Dothan; Nablus, 10—Kuryet Jit (Gitta); Ter'ata (Pirathon); Brook Kanah; ancient rock winepress, 11 -Yalo (Ajalon); 'Amwas (Emmaus); Sur'a (Zorah), 12—Kuryet el 'Enab (Kirjath Jearim); reach Jerusalem; some points re-examined; error in Aldrich and Symonds's Plan of Jerusalem, 13—site of the Tyropœon, 14— Ridge of Akra; enormous masses of rubbish covering the city; story of water-ehannels entering the Damascus Gate, 15—course of the second wall of the city; course of the third wall, 16—excursions to Valley of Roses, 17—and to Hebron; Beth Zacharia of Josephus and Macabees; departure from Jerusalem; Gibeah of Saul and Rama of Benjamin, 17—"Tombs of the Amalekites;" Jeb'a (Geba), 18 seene of Jonathan's adventure with Philistine garrison; Daumeh (Eduma of Euseb.); Fusail (Phasaelis): 'Akrabeh (Acrabattene); Tulluzah (Tirzah), 19—Tubas (Thebez); Sakut (Succoth); excursion beyond Jordan, 20—Wadi Yabis, no ruins, 21—ruins supposed to be Jabesh Gilead at some distance; Fahil (Pella); Beisan, 22—Beit Ilfa, perhaps Bethulia; Tel Hum, 23—various remains; Hasbeiya, 24 chasm of the Litany; excursion into the Huleh, 25—Banias; Lake Phiala, 26—Castle of Subeibeh; Hasbeiya; Hibbariyeh and ancient Temple, 27 start for Damascus; Deir al Ashayir, temple, 28—Damascus; Helbon and its wine, 28—leave Damaseus, 29—El Kefr and temple; Abila; Fountain of the Berada; Medjel Anjar and very fine temple, 30—Chalcis; Ba'albek, 31—Nahleh; temple; Fountains of the Orontes, 32—Monument of Hurmul; Fortress El-Husa, 33—Convent of St. George; Sabbatical fountain of Josephus; Ehden; the Cedars; sources of the Adonis, 35—Temple of ROE.

Venus at Apheca; Nahr-el-Kelb, 35—reach Beirut; sole object of these investigations.

Robinson, Rev. Dr. E.; his observations on the Wadi Araba, xxiii. 169.

Robson and Porter at Damascus, Messrs., xxiv. 28, 29.

ROCHE Percée, British North America, xxx. 273, 275, 313.

ROCHET d'Hericourt, Obit. Notice, xxv. p. xciii.

ROCKINGHAM Bay, North-East Australia, xxviii. 6.

Rocky Mountain House, xxii. 185, 190;

Passes of, xxix. p. cxcv. seqq.; Pal-

LISER, XXX. 267 seqq.; Geology of, XXX. 310, 313.

—— Point, Vaneouver Island, XXVII.

270, 282.

Roe, J. S., Surveyor-General, Western Australia; Report of Expedition under, to the South-Eastward of Perth, between September, 1848, and February, 1849, xxii. 1—departure from York; Nalyaring; natives; eross elevated and eold sand-plains, 2 —Stirling Range; to Cape Riche; start from Cape Riche, 3—Pallinup River; water-fowl; granite country, 4—Jeeramungup River, 5—fine grazing country; saltpools and river; Mount Madden, 7—salt-lakes and barren country, 8, 9—Bremer Range; great suffering of the horses, 10-Fitzgerald Peaks; eontinuance eastward of salt-lakes and marshes; suffering from want of water, 12—Mount Ridley; continuance of salt-lakes, 14 —recent traces of natives, 15—extreme difficulty of country and suffering of horses, 17—water at last, 19—at Russell Range; view of the sea and Recherche Archipelago, 20—turn westward parallel to coast; water more plentiful, 21—granite hills, and decomposition into boulders; Esperance Bay, 22—"melon-holes," 23—Gore River, 24—Lort and Young rivers, 27—Flinders's Seal Rock, 28—reach Phillips River, 29—geological indications; coal-shales, 31, 32 — Eyre Range; coal undoubtedly exists, 33 -Culham Inlet; Christmas dinner and rest; the Stirling Range visible, 34—Fitzgerald River, 35—and diseovery of extensive eoal-beds, 36-43 -change in vegetation near West Mount Barren, 44—skeleton of a seaROE.

man, 49—story of the party; burial, 50—Pallinup estuary; Groper fish, 51—reach Cape Riche, and Mr. Cheyne's hospitality, 52—departure for the west coast, 53—Sandal Wood: follow up the Pallinup; the whoopingcough among the aborigines, 54—reach Beaufort River; and hear colonial news; Kojonup military post, 55—poisonous grazing; splendid timber trees of jarrah and red-gum, 56 reach Bunbury; extent and results of journey; conduct of members of the party, 57. Roe Downs, Northern Australia, xxviii.

ROGAN Koto, Chadda River, xxv. 115. ROGERS, Commodore U.S.N., Expedition through Behring's Strait, xxvi. p.

ROHILLA, East of Persian Gulf, xxvii.

Rokoko Mountain, Yoruba, xxx. 225. Rolewewa, Ceylon, xxvii. 342. Rollers at St. Helena, xxx. 264.

Roman Remains, South of Tripoli, xxi. 132, 134, 135—in Syria, xxiv. 1 seqq. passim; in Rumilia and Balkan, xxiv. 37, 39, 42, 60, 67, 70, 77, 78—in North Africa, 277, 279.

- Roads, in Hauran, xxvi. 50, 51, 53—by Dead Sea, 66—from Damascus to Cæsarea Philippi, 45.

— (Papal) Geodetic Operations, xxv. p. cix. Also see xxii. p. civ.

- Catholic Missions in Spain. See Missions and Missionaries.

Romanzoff Mountains, Russian America, xxv. 203.

Rome; ancient sites in environs of, xxv. p. cviii.; Maps of, and its environs, ib., xxvi. p. ccii.; vol. xxvii. p. cxlvii.exlviii.

Ronay, Dr. See Cooley, xxiv. 271. Rong, low warm land so called in Tibet, also a district of Ladak, xxiii. 13, 16, 21, 22, 27-29, 41, 44.

ROODKUIL, South Africa, xxviii. 154.

Rooke's Observations on Pacific Tradewinds, xxiii. 228.

Rooney, Capt.; gold discovery on Queen Charlotte Islands, xxiv. 248.

Rooproa, Aracan, xxiv. 103, 104.

ROPER River, North Australia, xxviii.

Roquemaure, Rhone, xxv. 183.

ROQUEMAUREL'S Coast Survey of Corea and Chinese Tartary (French), xxiii. p. exxxiv.

ROUTES.

Rosain Bosch, Little Namaqua Land, xxviii. 170.

Rosbach, battle of, xxvii. 30.

Roses, Valley of, Palestine, xxiv. 17. Ross, Sir John; his stores of 1833 found perfect in 1851, xxiii. 126—quoted, xxvi. 42—Obit. Notice, xxviii. p. CXXX.

-, Sir James, xxvi. 28, 29, 35.

—, Sir Patrick, Obit. Notice, xxi. p. lviii.

- Point, Arctic Sea, xxii. 95.

Ross-shire Coast Survey. See Coast Survey, Scotland.

Rотн's Researches in Palestine, xxviii. p. clxvii.; vol. xxix. p. clxv.

Roussin, Admiral, Obit. Notice, xxv. p. xciii.

Route from Copiapo to San Pedro de

Atacama, xxi. 129. Routes in Central Africa, by Barth, &c. From Aseyu to Tuwat (Sahra) xxi. 135.

Aghadez to Sakatu, 156. "

" Maradu, ib. 22 "

" " Bilmah, 157. " Tuwat, 158. " Mabruk, 160. Tintellust to Aghadez, 161. 22 ,,

29 Mabruk to Timbuktu, ib. "

Ghat to Tsertsuwah and Ekeri. 22

Kano to Adamawa, 194. "

", Toto, 195.
Toto ", Egga, 197.
Volval di l'article di l 27 22

Yakoba through Adamawa to ,, the Pagans, ib.

Kuntsha to Yola, 199. " Hamarrua to Yola, 200.

" Yola to Baia, ib. "

,, "Loggun, 201. "Ybo, 202. Tshamba to Baia, 203. 99

" "

Katagaum to Boberu, 204. " Daraso to Bawshi, ib. ,,

Boberu to Yakoba, ib. 99 Katagaum to Shera, 205. ,,

Shera to Bawshi, ib. ,, Katab to Yakoba, ib. ,,

Kano to Kuka by Khadija, ib. ,, Khadija, 206. "

" ,, Kuka by Gummal, 207. ,, Toto, 208. "

,, Ginja to Sakatu, 209. ,,

,,

Karnak Baghrimmi to Bang-12 bay, 210.

Timbuktu to Sakatu, 212. " El Dra to Timbuktu, 213.

" Sakatu " " by Hamdillahi, 217.

ROUTES.

ROUTES in Central Africa, by Barth, &c. From Hamdillahi to Timbuktu, 218. Timbuktu to Hamdillahi, ib.

ROUTE followed by Dr. Wallin from Cairo through Arabia to Medina and Meeca, xxiv. 207.

——— (Burton's) from Yambu to Me-

dina, xxiv. 224.

- from Medina to Mecca,

xxv. 134.

ROUTES of Dr. Philippi in Atacama, xxv. 171.

- of Burton and Speke in East Africa, xxix. 450 seqq.

ROUTINE, virtue of exact, in Aretie Suffering, xxvi. 12, 15.

ROYAL Premium. See Medals and Premiums.

Roza, José da, Explorations in Interior Africa in 1678, xxvii. 373.

Ruabuki, New Zealand, xxviii. 313.

RUAD, On the Island of, North Syria, by Capt. W. Allen, xxiii. 154.

Rubeho Mountains and Station, Usagara, East Africa, xxviii. 221; xxix. 118-122, 146, 147.

Rubuga, Unyamwezi, xxviii. 224 ; xxix. 164, 178, 179.

Ruby-mines, Burma, xxvii. 56, 70.

Ruche River, Lake Region, Africa, xxix. 211, 213-216, 244. East

Rucuto River, South of Zambesi, xxx. 155, 156.

Rudan, Kerman, Persia, xxv. 54.

Rudbal, Ferozabad, Fars, Persia, xxvii.

Rudbar District, Kerman, Persia, xxv. 50.

Rudcha, Balkan, xxiv. 76.

Rudi, East Africa, xxix. 128.

Rud-Khaneh Berr, Kerman, Persia, xxv. 52, 53.

— Duzde, Kerman, Persia, ibid.

— Nask, Kerman, Persia, ib. 39.

— Pool, Kerman, Persia, ib. 41. — Sagdher, Kerman, Persia,

ib. 46. - Shur, Kerman, Persia, ib. 46, 48, 49.

Ruduk, Tibet, xxiii. 12, 13, 16, 24, 28,

35, 46-48, 67.

Rufiji River, or Rwaha, East Africa, xxix. 18, 29, 31-33, 42—described, 43, 44, 46, 58, 71, 96, 101, 105, 120, 121, 139, 299, 300, 303, 306, 307, 378 - - copal from, 439 — elephants on, 441.

RUSSIA.

Rufita River, East Africa, xxix. 126, 127.

Rufu River, or Pangani, East Africa, xxviii, 209, xxix, 310. See Pangani. Rufuta River, East Africa, xxix. 108, 111.

RUFUTU Mountains, East Africa, ib. 109.

Rugged Ridge, North Australia, xxviii.

Ruguvu River, Lake Region, East Africa, xxix. 29, 211, 212, 244.

Rugwa, Rukwa, or Ikwa, a Lake South

of Unyamyembe, xxix. 305. Ruhembe River, Lake Route, East Africa, xxix. 125.

and Hills, Usui, Lake Region,

East Africa, *ib.* 282, 283. -, Sultan of Usui, Lake Region,

East Africa, ib. 229, 281.

RUHUMBA Ziver, Lake Zoute, East Africa, *ib.* 211.

Ruins; Greek, at Milo, xxii. 209, 210. - of Temples in Syria. See Ro-BINSON, XXIV. 1 seqq. passim, and xxvi. 47.

in Harar, xxv. 141.

– in Bashan. See Graham, xxviii. 226 seqq. passim.

— of great Temples in Cambodia,

xxx. 179, 185 seqq.

— near Basra, xxx. 199—remarkable near Taibah in Syrian Desert, 207—near Salt Lake of Aleppo, 209. Also see Roman.

Rum, Lebanon, xxiv. 3.

— Cay, Bahamas, xxvi. 193.

Rumbling Mountain in South Peru, xxi.

Rumeish, Palestine, xxiv. 5. Rummon, Palestine, xxiv. 18.

Rumuma and River, Lake Route, East Africa, xxix. 116, 397.

Runangwa, or Marunga River, Lake Tanganyika, xxix. 253, 256, 258.

Rundur, or Kyampo, nomads on north border of Tibet, xxiii. 6, 7, 16.

Rungba (Lowlander in Tibet), xxiii. 22.

Rungjwyn, Aracan, xxiv. 91. Rupshu, District of Ladak, xxiii. 5, 11, 14, 16, 22, 24, 27, 30, 44, 50, 51, 54, 61, 67.

Rusimba, Mwami, or Sultan of Ujiji, xxix. 224, 278.

Rusizi River, Lake Tanganyika, ib. 235,

Russell Range, West Australia, xxii. 14, 16, 18, 21.

Russia, Review of Geographical Work and Progress of, xxi. p. xxiv. xxv.;

RUSSIA.

vol. xxii. p. xcii ; vol. xxiii. p. lxxxv.lxxxix; vol. xxv. p. cxiii.; vol. xxvii. p. cli.; vol. xxviii. p. clix.; vol. xxix. p. clxvi.; vol. xxx. p. clxxix.

Russia, Statistical Atlas of, xxi. p. lxxv. Russian aid to search for Franklin, xxii.

p. Ixxv.

-- soldiers and sailors, endurance of privation, xxiii. 95.

-- trade with China. See Parkes, xxiv. 307.

-- establishment at Peking, and researches by its members, xxviii. p.

- Fur Company, xxii. 120. Russo-Mongolian frontier. See under

Amur, xxviii. 376 seqq. Rustak, Yezd, Persia, xxv. 19. Rustenberg, Transvaal, xxiv. 289; xxx.

Rusukastro, Rumilia, xxiv. 48.

Rusuci River, Lake Region, East Africa, xxix. 210, 211, 230.

-, salt making at, *ib.* 434.

Ruvu River, or Kingani (q. v.), East Africa, xxiv. 267.

Ruwala, Arab clan, of the Anezeh tribe, xxiv. 126, 132, 141, 149, 159, 168, 195, 197.

Ruxton, Mr., obstructed in his attempt to penetrate Damara Land, xxii. 141.

RWAHA River, East Africa, xxix. 124, 126, 128, 145, 159, 171, the same as the Rufiji, q. v.

Rybin, member of Aral Survey, xxiii.

S.

SAADANI, port opposite Zanzibar Island, xxix. 12, 43, 45, 56, 74, 99, 145, 308
—copal at, 435, 438, 439.

Saba, division of Anezeh Arabs, xxviii.

Sabæans, or St. John Christians, xxvi.

Sabalan, mountain in Azerbaijan, xxi.

Sab'an, Selma Mountains, Arabia, xxiv. 204, 205.

Sa Bandeira, Viscount, xxx. 153, 155. Sabanja Lake and Gulf of Nicomedia, communication between, proposed by General Jochmus, xxvii. p. cliv.

Sabanetta, Ecuador, xxx. 65.

Sabbatical River of Josephus, xxiv. 33. Sabla, ruined town on the Karun, xxvii.

Sables in Amur Land, xxviii. 388, 394.

ST. JOHN'S.

Sacapa River, Honduras, xxx. 60, 61. Sacramento River, California, xxx. 2. Sacrifices, human, at Tonga, xxii. 115.

, finger, at Tonga, ib. SACUMBE, Zambezi, xxvi. 110.

SADDLE Island, Torres Straits, xxvi.

Saddles, European and Asiatic compared, xxv. 77.

Sadeek, Amur, xxviii. 439. Sadova, Balkan, xxiv. 58, 74.

Safa, Safáh, rocky volcanic plain southeast of Damascus, xxvi. 49.

Safook, Arab tribe, xxiv. 187, 195.

Sagain, near Ava, xxvii. 71.

Sagama Mountains, East Africa, xxviii. 209, 210.

SAGESERA, Lake Route, East Africa, xxix. 69, 70.

Sago palms drifting off New Guinea, xxi. 18.

- exported crude from Borneo, xxiii. 75.

SAHRA, or Sahara, the, xxi. 130, 135—its nature, 166; xxii. 135; xxx. 112, 113, 255 seqq. See African Mission.

- Ridge, near Damascus, xxvi. 46. Sahalian (or Sagalian) -ula-Hotun, otherwise Aigunt, Amur Land, xxviii. 382, 407, 434, 442, 443, 444, 445.

– Gulf, xxviii. 376. - Island, xxviii. 390.

Sahib Zeman, Turkish anticipations of the, xxiv. 43.

Saidabad, Kerman, Persia, xxv. 65. Saidnaya (ancient Danaba), north of Damascus, xvvi. 46.

Saigak antelope on islands of Aral Sea. xxiii. 94.

Saigon, Cochin China, xxx. 184.

St. Cyril Island and Cape, Amur, xxviii. 384, 386.

St. Gabriel, cataracts of, Rio Negro, xxiii. 214.

St. Gall, Switzerland, increase of population, xxiv. 315.

St. George, mouth of Danube, xxx. 162, 164, 168, 170.

· d'Arbora, Greek island off Gulf of Athens, xxii. 201.

– Islet, off Milo, xxii. 204. St. George's Convent, Syria, xxiv. 33. St. Helena, Notes to accompany Map of. By Major Edmund Palmer, R.A., xxx. 260.

St. John, Lieut. R.E., xxvii. 192, 194, 198.

—, Christians of, xxvi. 145. St. John's Bay, Milo, xxii. 202.

ST. JOSEPH.

St. Joseph, British North America, xxx.

St. Lawrence River, surveys of, xxi. p. lxvi; vol. xxiv. p. xcii.; vol. xxvii. p. exxviii.; vol. xxx. p. exxxviii.

- Canal, xxii. 175.

St. Manoli, islet in Milo group, xxii. 206.

St. Martin, on the Arve, xxvii. 226. —, M., on History of Spasini-

Charax, xxvii. 187.

St. Mary Straits, between Lakes Huron and Superior, xxii. 176.

St. Maxime de Beaufort, Upper Savoy, xxv. 186.

St. Miguel, Gulf of Darien, xxvii. 191, 195, 197.

St. Nicholas Monastery, Bulgaria, xxiv. 66, 67, 70, 71.

St. Simon on Hannibal's Passage of the Alps, xxv. 183.

St. Thaddeus, Cape, Behring's Straits, xxv. 196.

SAKA, in Mangyul of Nari, Tibet, xxiii. 4, 16.

SAKATU, Sokoto, Negroland, xxi. 135, 192, 219; xxx. 124. See Routes. SAKOMAREN, Tuwarik tribe in Sahra, xxi. 135, 168.

Sakoon Tribe of Arabs, xxiv. 158.

SAKUT (Succoth), near Jordan, xxiv. 19, 20.

SALAHIYEH, Salihiyeh, Range, Anti-Libanus, xxvi. 46, 47—view of Damascus from it, xxiv. 28, 29.

Salala River, Honduras, xxx. 60, 61. Salaqui River, Atrato River, xxvi. 181.

Salawe, Lake Region, East Africa, xxix. 268, 269.

Saleh, Hauran, xxvi. 51.

SALEHAKOL Island, Vancouver Island, xxvii. 286.

Salgir River, Crimea, xxvii. 134, 140,

Sali in Bashan, xxviii. 244. Salian, near Tehran, xxv. 2.

Salim, near Esdraelon, Palestine, xxiv. 9.

-, near Nablus, Palestine, ib. 18.

Salinas de Ceremeno, South Peru, xxi. 109.

Saline lakes on shore of the Aral Sea, xxiii. 98.

Salitre, nitrate of soda, xxi. 105, 113, 117. See Nitrate.

Salkhad, Sulkhad (Salcah), castle of, Bashan, xxvi. 51, 52; xxviii. 229, 241,

Sallu, mountain east of Shiraz, xxvii. 155.

SAMARKAND.

SALMANABAD, between Tehran and Kum, xxv. 3.

Salmon in Coppermine River, xxii. 83—on coast of Victoria Land, 85.

- fishery, Vancouver Island, xxvii. 282, 310.

- River, Northern, British North America, xxii. 193.

Salomon Islands, current at, xxiii. 226. Salt, deposits of, South Peru, xxi. 109; xxv. 164—curious facts as to deposit of, xxi. 110.

Plain of Isluga, South Peru, xxi.

119.

- Caravan at Akades, xxi. 142, 150. - Pans, South Africa, xxii. 151, 163 —at Milo, xxii. 220, 222.

–, Hill of, near Kum, Persia, xxv.

4, 8.

- Field, remarkable, in Kerman, xxv. 66.

- Trade of Ghenitchi, Crimea, xxvii. 137—of Zanzibar, xxix. 434.

— Lake, Utah, survey of, xxi. p. xc. — Lakes of Tibet, xxiii. 46 seqq.

— Lake near Shiraz, xxvii. 150. -, Sturt Creek, North Aus-

tralia, xxviii. 59. -Lakes and Marshes, South-Western

See Roe, xxii. 1 seqq. Australia. passim.

Aleppo, xxx. 209. - Marshes, Gulf of Akaba, xxiii. 170.

- water drunk by camels, xxiii. 98

—by survey party on the Aral, ib.
—River, British North America, xxii. 186.

Salt's Account of the Portuguese settlements in Africa, xxix. 2.

Saltness of Red Sea, xxiv. 230.

of Pangong Lake, Tibet, peculiar, xxiii. 47.

Saltpetre manufacture in Persia, xxv.

- Caves, North-West Mexico, xxx. 38.

Salubrity of Isthmus of Darien, xxvii.

Salwatty, New Guinea, xxx. 177.

Salwen River, Burma, xxvii. 54, 59, 63, 65, 89.

SAMAGIR, Tungus Tribe on the Amur, xxviii. 388, 395, 436.

SAMANA, Peninsula and Bay of, in the DOMINICAN REPUBLIC. By Sir R. H. Schomburgk, xxxiii. 264.

Samaria and its geology, xxvi. 57. SAMARITANS at Nablus, xxiv. 10.

SAMARKAND. See Bokhara.

SAMBA.

Samba Mountains, South Central Africa, xxiv. 274.

Sambas River, Borneo, xxiii. 70.

- State, Borneo, ib. 81.

Sambuk, Arab craft, xxiv. 210.

Samh, edible plant in North Arabia, xxiv. 126, 136.

Sammakh, Lake Tiberias, xxviii. 261.

Samoan, or Navigator Islands, xxi. 222 -wars, 223—security of Europeans, 225—want of government; progress of Christianity, 226—mortality from hooping-cough; cocoanut-oil.

----, currents about, xxiii. 226. Samokoue River, Matebele country, xxvi.

Samra Hail Peak, Central Arabia, xxiv.

176, 200.

San Andres, volcano, Mexico, xxx. 54. — Antonio, Bolivia, xxiv. 261. See Sant.

- Augustin Mines, Mexico, xxx. 51. - Bartolo Mines, Atacama, xxv. 165.

- Blas and Chepo, route across the Isthmus between, xxiii. 174.

—, Mexico, xxx. 45.

Carlos, Venézuela, xxiii. 215, 216.
Diego silver mine, North-West Mexico, xxx. 32.

- Domingo, xxiii. 267, 268. See

Schomburgk.

Plain, San Salvador, xxviii. 358.

- Fernando, San Salvador, ib. 350

- Francisco, xxx. 2.

- de la Serva, Atacama, xxxiii. 196.

- silver mine, Atacama, ib. 202.

- Jacinto, Mountain, San Salvador, xxviii. 357.

– José, Honduras, xxx. 63.

– Juan Lempa, San Salvador, xxviii. 351 seqq. River, Samana, San Domingo,

xxiii. 274.

-, near Isthmus of Darien, xxvi. 175, 177.

---- de Dies Lake, San Salvador, xxviii. 353.

— de los Lagos, Mexico, xxx.

- Lorenzo Town and River, North-West Mexico, xxx. 9.

— MATEO River, Bolivia, xxiv. 261. — MIGUEL, Peru, east of Andes, xxv. 152, 153.

-----, Gulf of, Darien; route

across Isthmus from, xxiii. 175, 184, 189; xxvi. 181.

SANDERSON.

SAN MIGUEL, Department of, San Salvador, xxviii. 350 seqq.

- River, San Salvador, ib.

- Mountain, San Salvador, ib. 351.

- Pablo River, Atrato River, xxvi. 175, 176.

- Pedro de Atacama, xxv. 165.

- and San Pablo, silver mine, Tarapaca, xxvi. 230.

– Plain, San Salvador, xxviii.

358.

- de Batopilas, North - West Mexico, xxx. 31, 34. See Batopilas. - Salvador, Central America; description of the state of. Communicated by John Power, Esq., xxviii. 349.

Position, dimensions, boundaries; watersheds, 350—rivers, 351, 354—lakes, 352, 355—soil, 353—volcanic chains; plains, 357—Lakes of Guija and Ilopango, 358.

Department of, in the

above, ib. 353.

———— Lake, do. do., *ib.* 352. of Columbus. See Becher, xxvi. 189 seqq.

- Sebastian, Villa de, North-West

Mexico, xxx. 6.

- Vicente, department, plain, &c., in San Salvador, xxviii. 351 seqq. Sand drifts and springs, Babylonia,

xxvi. 132.

- River, Natal Frontier, xxx. 242. ---, Fontein, Little Namaqualand,

xxviii. 170.

Sandalwood; traders and affrays, xxi. 223—in Zanzibar, xxiii. 108—Bonin

Islands, xxvi. 234.

Sanderson, John; Memorandum of a Trading Trip into Orange River FREE STATE and country of TRANS-VAAL BOERS in 1851-52, xxx. 233 from Pieter Maritzburg over the Drakensberg; curious basaltic dykes; 235—enter Orange River State; fantastic forms of Drakensberg; Harrismith; Eland River, 236 — wild hogs, 237—Gnus; False River, 238 flight of locust birds; locust swarms; ostrich egg-cookery, 239 — Rendsburg's Farm; magnetic ironstone; Makati Kafirs, 240-mirage, 241lions; Boers' graveyard; Renoster River; Mooi River Dorp, 241—Camp of excited Boers; kidnapping among

SANDHILL.

the Boers, 242—cross the Vaal and enter Transvaal country; sketching and jealousy of it; Pretorius; native divination, 234 — Baobab tree; a threshing-floor in Asiatic fashion; soapstone manufactures, 244; secretary-bird's nest; the Dripping Cellar; vineyards at Harmse's, 245—the Magaliesberg; the Selon's River; tree - ferns, 246 — Rustenburg; the Boers and their means of subsistence, 247 — brandy, figs, raisins, tobacco, skins, &c.; salt; unhealthy habits, 248 -schoolmasters; English deserters; coffin keeping; Bapugeni tribe; their huts, 249—dress, &c.; the Magaliesberg, 250. Travels south again; Olefant's Neck, 251—the Waterbuck; Cavern Range, 252—reported large apes, 253 — Moselekatse; Renoster River; dogs; locusts, their noise; the Fight Hill, 254—reach Harrismith, 255—sketch-map.

SANDHILL Bay, Aylmer Lake, Arctic America, xxvi. 20.

Sandhills, region of, North Central Africa, xxx. 114.

Sandeman, Mount, North Australia, xxviii. 31.

Sandoway, Aracan, xxvii. 75.

Sandstorms in South Peru, xxi. 112.

Sandwich Islands, Hawaii volcanoes in, See Sawkins, xxv. 191.

-, currents at, xxiii. 227, 228.

-, xxv. 195.

Sandy Island, North Australia, xxviii.

SANETCH and Sanetch Indians, Vancouver Island, xxvii. 269, 270, 280, 289, 294, 295, 301. Sanford, W. A., On Mammals and

Birds found by Austin's party in West

Australia, xxvi. 273.

- River, West Australia, ib. 258. Mount, North Australia, xxviii. 45.

Sangara, Monomoiese (i.e. probably Usagara, q. v.), xxvi. 118.

Sangosi (for *Usagosi* in Unyamwezi),

Sangermano's History of the Burmese Empire, xxvii. 85.

Sanji (for *Usange* in Unyamwezi), xxvi.

Sanpu River, Tachok Tsangspo of Tibetans, considered to be the Upper Brahmaputra, xxi. 64; xxiii. 7, 9, 35. Sansandi, Negroland, xxx. 125.

Sansanne Mangho, Negroland, ib. 118.

SASKACHEWAN.

Sanscrit names in Indo-Chinese countries, xxvii. 95, 106.

Sanshan, Yangtsekiang, xxx. 80, 100.

Sanshureh River, Zambesi, xxiv. 292,

Santa Ana, San Salvador, xxviii. 349.

——— Lake, San Salvador, ib. 352. Sant' Antonio Valley, San Salvador, ib. 351.

Santa Barbara, Samana, San Domingo, xxiii. 266—captured, 268, 281.

- Mountains and River,

Honduras, xxx. 60, 71, 62. - Cruz, east of Andes, xxv. 153.

- Eulalia Silver Mine, North-West

Mexico, xxx. 32.

— Fé, North Mexico, xxx. 30.

– Maria, in Darien, xxvii. 197. - River, North-West Mexico, xxx. 16.

-- Marina Convent on Milo, xxii. 209.

- Monica River, Isthmus of Darien, xxvi. 175-177.

- Rosa Silver Mines, near Guantajaya, South Peru, xxi. 109.

—, Ecuador, xxviii. 343.

Santafu, Yunan, xxvii. 89.

Santarem, Viscount, his fac-simile of Fra Mauro's map, xxv. p. ev.; Obit. Notice of, xxvi. p. clxxxv.

Santiago, Chilé, on Longitude of, xxviii. 333 seqq.

Santuru, chief on the Zambesi, xxiv. 296—his memorials, 298.

Saomete, Bahamas, xxvi. 198, 199.

Sapoa River (Lake Nicaragua), Survey made for a Canal to the Pacific from. By Magister Andreas Oersted, xxi. 96.

Saquisili, Ecuador, xxx. 66.

SARAFSCHAN, for Zarafshan, q. v.

Saraiyamo, Sudan, xxiv. 284.

SARAWAK Řiver, Borneo, xxiii. 71. SARDINIA, Kingdom of; Great Government Map of, xxv. p. cix. See Piedmont.

map of, xxiii. p. xcix—his work on, xxvii. p. cxlviii.

SARDSAR, or Cold Region, in Persia, xxvii. 184.

Sarebas River, Borneo, xxiii. 71.

SARENGE, Lake Region, East Africa, xxix. 267.

Sargasso Sea, xxiii. 219, 222, 227.

SARIS, Palestine, xxiv. 12. SASA, Hermon, xxvi. 45.

- River, Yoruba, xxx. 215. SASKACHEWAN River and Rapids, xxii,

SASSARDI.

180-182; xxx. 272, 277, 278, 284, 286, 295, 296.

Sassardi, Pass and River, Isthmus of Darien, xxvii. 199, 203.

Saunders Island, Baffin's Bay, xxiii. 139.

Savage Island, Aracan, xxiv. 88.

SAVANA River, Darien, xxiii. 180, 183, 184; xxvii. 194, 195, 198, 200.

- de la Mar, San Domingo, xxiii. 270.

Savé, Persia, and Marco Polo's legends

of it, xxv. 4, 6. SAWAHIL, or "The Shores," applied to the coast opposite Island of Zanzibar, xxviii. 198; xxix. 31.

Sawahili, people of the preceding; (spelt, Sowhylees) xxiii. 103; xxviii. 188, 194-196, 200, 201; xxix. 43, 48, 188, 296, 351, 404, 445, 448. Sawkins, J. G., on the Volcanic Moun-

TAINS of Hawaii, SANDWICH ISLANDS, xxv. 191.

The four mountains Kohala, Muna Kea, Hualalai, Muna Loa; comparative age and height; immense lava cliffs on north-east of the island; west and south-west sides of the island arid; north-east and east moist and luxuriant, 192; ascent to recent crater of Kiluea; description; crater on summit of Muna Loa, 193; other craters, 194.

SAY, Niger, xxx. 116, 120, 125.

Sayyid Said, Sultan of Oman and Zanzibar ("Imam of Maskat"), xxviii. 196, 202, 205; xxix. 4, 11, 12, 58, 94, 96, 100, 294, 355. See Maskat, Imam of. Majid (son of the preceding), Sultan of Zanzibar, xxix. 12, 13, 15,

18, 19, 80, 295.

Suwayni (elder son of Sayyid Said), Sultan of Maskat, xxix. 18,

Scala of Milo, xxii. 201, 221, 226.

Scales of the Ordnance Survey; Remarks and discussions on, xxii. p. 90; vol. xxiii. pp. xc.-xcvi.; vol. xxv. p. ciii.; vol. xxvi. p. exc.; vol. xxvii. p. cxxxi.; vol. xxviii. p. clv.; vol. xxix. p. clii.; vol. xxx. p. cxli. Scarcies River, West Africa, xxx.

118.

Schach-dag, Caucasus, xxi. 2, 4.

Schahl, Mr., companion of Mr. Sevin to Mexico, xxx. 1.

Schaub on Hannibal's Passage of the

Alps, xxv. 182, 185. Schief Fontein, Bushmanland, xxviii. 163.

SCHOMBURGK.

Schissatuch Indians, Vancouver Island, xxvii. 287.

SCHLAGINTWEIT Brothers; their work on the Alps, xxiii. p. xcviii.—their journeys in India, xxvii. p. clvi.— Ditto, and death of Adolf S., xxviii. p. clxxxiii. — Obit. Notice of the latter, xxix. p. cxxxvii.

Schmelen's Hope Station, Walfisch Bay, destroyed by Namaquas, xxii. 142.

Schomburgk, Sir R. H.; the Peninsula and Bay of Samana in the Dominican

republic, xxiii. 264.

History. — Columbus at Samana, which he called Cabo San Feramo; D'Ogeron at Samana, 265—he establishes a French settlement; massacre by the Spaniards, 266—Spanish colony; recruited by refugees from the slave insurrection in Hayti; the whole island ceded to France, 267—Toussaint L'Ouverture; Spain declares war against France; capture of Samana by Capt. Dashwood, and of San Domingo city by General Carmichael, 268—the east of the island declares independence; is conquered by General Boyer of the republic of Hayti; resultless French expedition of 1822, 269—the Dominican republic separates from Hayti in 1844. Geography.—The peninsula once isolated, 270—dimensions; the bay; the River Yuna; the reefs; wrecks upon them, 270—ample shelter within, 271—details; Punta Gorda, 272—the Yuna; its advantages, 273—Naranjo River; Bahia de San Lorenzo; Yabon River; Savana de la Mar; Port de los Colorados, 274—Yeguada River; Mount Redondo; east and north coasts of peninsula, 274—Port Jackson, 275— Geology.—Central chain of peninsula; fossils; coal; other minerals, 276 the limestone formation, its remarkable features; stalagmite caverns, 277 — Indian traditions; shell-heaps and Indian figures, 278—the conical limestone hillocks and their origin; Productions, 279—great trees; mahogany and other woods; excellent coffee, but not cultivated; luxuriant aspect of fruit, but neglected; fish, oysters, aquatic birds, 280. Popula-tion.—Traces of the Indians; present population in descent Canarian, French, Creole, Spanish, Negro; commerce with Turk's Islands, 281 the town; Wesleyans; Santa Barbara on the peninsula a penal settlement,

SCHOMBURGK.

282—defences; Banister the Pirate, and the cays called after him; importance of the position of Saniana, 283.

Schomburgk, Sir R. H.; letter from San Domingo referred to, xxi. p. xciii.published a list of hurricanes, xxv. 292; xxx. 177.

School of Mines, establishment of, xxv.

p. lxxxii.

Schools, Bulgarian, xxiv. 58, 59.

Schooling in Transvaal republic, xxx. 248.

- at Ghadamis, xxx. 257.

Schooners built at Orenburg for the Aral Surveys, xxiii. 94.

Schouw, Prof., Obit. Notice, xxii. p. lxviii.

Schubert, Dr., his observations on the Wadi Araba, xxiii. 168.

Schurvebergen, Orange River, xxviii.

Schwaner, Dr., journey in Borneo, xxi. p. lxxxi.

Scone, New South Wales, xxii. 230.

Scopus, near Jerusalem, xxiv. 17. Scoresby, Capt., xxvi. 33, afterwards

-, Rev. Dr.; his evidence as to ice-barrier in Sea of Spitzbergen inconsistent with his former statements, xxiii. 131—quoted as to currents and drift-ice on Greenland coast, xxvi. 36 seqq.—Obit. Notice of, xxviii. p. cxxxviii.

Scotch colony in Darien, xxiii. 179,

Scotita oak forest in Laeonia, xxvii. 41,

Scotland, Ordnance Survey of. Ordnance.

-, Coast Surveys of, xxv. p. c.; vol. xxvi. p. exciii.; vol. xxvii. p. exxi.; vol. xxviii. p. exliv.; vol. xxix. p. exli.; vol. xxx. p. exxx. Scott, Amos, of Royal Sappers and

Miners, On Western Australia, xxv.

Sculptures of Naksh-i-Rustum, South Persia, xxvii. 160—of Tang-Ab, 177 -Indian, in San Domingo, xxiii. 278,

Scurvy, suffering from, by Kennedy's party in Arctic Regions, xxiii. 128among Dr. Kane's party, xxvi. 12— Adansonia fruit used as an antidote to, in North Australia, xxviii. 146.

SEA of Greenland, a name proposed, xxiii. 130.

- of Spitzbergen, a name proposed, ib.

SEKHOSE'S.

Sea bear or ursine seal, xxii. 120.

— level, mean, xxvi. p. ccxxxi.

— margin, raised, in Crete at Cape Kino, xxii. 227. - range, North Australia, xxviii. 21.

—, recession of, at Euphrates Delta, xxvii. 185, 186.

- slug or Tripang, xxiii. 76.

— water, specific gravity of, xxvii. p. CXXXIII.

Seal Rock, West Australia, xxii. 28. - skin trade, South America, xxi. 126.

Seang River, tributary of Yangtsekiang, xxviii. 289.

Seaoukooshan, or Little Orphan Hill, Yangtsekiang, xxx. 85, 97.

Seaousha, Chusan, xxiii. 245, 255.

Sebastieh (Samaria), xxiv. 10. Sebe (Mandingos), xxx. 118.

Sebha, Fezzan, xxiv. 278.

Sebitoane, Sebituane, a Makololo chief, xxi. 18, 21, 24—his country beyond Lake Ngami, xxii. 163—his history and death, 165 — his extensive authority, 166; xxiv. 293.

Sebolemokoa, a reported great lake in

Central Africa, xxii. 171.

SEBOTH, tributary of the Nile, xxx. 131. SECHELE, South African chief, xxvi.

Section of Angola, ideal, xxv. 232. Sections of South Peru, xxi. 123. Seedies of East Africa, xxiii. 107.

SEEMANN, quoted on the labour involved in surveys, xxiii. 185—on the sickly climate of coasts of Darien, 187.

Seenawan, Ghadamis, xxii. 131; xxx. 255, 257.

SEETZEN'S Travels; their publication, xxv. p. cx.—in Bashan, xxviii. 228.

Seffurich (Sepphoris), Galilec, xxiv.

Segora, Sagora, or Wasagara, East Africa, xxiv. 266, 268. See Usagara. Sehwen, Hauran, xxvi. 51.

Sehwet el Khudt, Hauran, xxvi. 51; xxviii. 245.

Seiches or lake-tides, xxvi. 214; xxix. 238.

Seis, reported ruined city in Descrt east of Bashan, xxviii. 237.

Sekeletu, a chief of the Makololo, xxiv. 293—seheme to murder him, 294—his town, 304; xxv. 220; xxvi. 221, 227, 228; xxvii. 358, 387.

Sekhomi, chief of Bamunguato, South

Central Africa, xxvi. 86.

Village on Zambesi, xxiv. Sekhose's 293, 304.

SELEUCIA.

Seleucia in Pieria, Ancient Harbour of, by Capt. W. Allen, xxiii. 157.

Seleucus and Antiochus, named in cuneiform inscriptions, xxvi. 148.

Selimne, Balkan, xxiv. 61, 65.

Selenga River, Lake Baikal, xxviii. 379.

Selgie, a Dyak chief, chops through a musket-barrel with his Borneo cutlas, xxiii. 72—swears friendship with Dalton, 79.

Selinja River, Amur Land, xxviii. 382, 430.

Selkirk's Settlement, Lord, at Red River, British North America, xxii.

Sellameh (Selame), Galilee, xxiv. 7. Sellasia, Laconia, battle of. See Joch-Mus, xxvii. 34 seqq.; ib. 49.

Selma Mountain, and Aja, parallel chains, Central Arabia, xxiv. 170, 175—legend of name, 176; 190, 191, 194, 198, 202-205, 207.

Selon's River, Transvaal, xxx. 245,

Semana, or Western Branch of Euphrates, xxvi. 140.

Semenof's exploration of the Thian-Shan, xxviii. p. clxiv.

Sena, Zambesi, xxvi. 127, 129; xxvii. 377, 385; xxx. 144, 155, 156, 158.

Senagongo, East African Lake Region, xxix. 268.

Senegambia, xxviii. p. cciv.; vol. xxx. 119, 127.

SENG ("The Lion"), district of Tibet on the Indus divided into Seng-Tot and Seng-Mat, Upper and Lower, xxiii. 12, 16, 27, 38.

Sengana, branch of Kwora River, xxv.

Senge Tsangsho (Lion River, the Indus Head), or Senge Chu, xxiii. 8, 35.

Sensuntereque and Ilobasco Mountains, San Salvador, xxviii. 350 seqq.

SEPARATION of marine animal tribes partially accounted for, xxiii. p. CXXXV.

Sepulchre, Church of the Holy, xxiv.

Serai, Rumilia, xxiv. 41.

Seraj, Shiraz, Persia, xxv. 73.

Serchu, "Gold River," a source of the Sutlej, xxiii. 39.

Serdiyeh Arabs, xxviii. 252.

Serez, Kerman, Persia, xxv. 28.

Sergu. See Sorgu. Serikia, a fertile district between Tibet and Khotan, xxiii. 6.

Serjaz, Kerman, xxv. 48.

SEVIN.

SERKIN Turawa, a high official at Agadez, xxi. 150.

SERPENT ISLAND (Danube Mouth), Remarks on, by Capt. T. Spratt, R.N., xxvii. 220.

Serra de Jacami, Rio Negro, xxiii.

Serras de Cababuris, Rio Negro, ib.,

-- de Curicuriari, Rio Negro, ib. Serracolets (Mandingos), xxx. 118.

Serrah Valley, Sinai Peninsula, xxv. 276.

SERULE River, Bamanguato, South Central Africa, xxvi. 88.

Service republics on Zanzibar coast, xxix. 355.

Servistan, Fars, xxvii. 151, 152. Sesecale River, Honduras, xxx. 62.

Sesheke, town of the Makololo chief Sekeletu, South Central Africa, xxiv. 292-294, 296, 300, 304; xxvii. 358, 371, 375, 376.

- River (in fact the Upper Zambesi), xxii. 165—its floods, 167—upper course, 168; xxiv. 269.

Sesore River, San Salvador, xxviii. 352.

Sesostris, monuments of, near Mecca, xxv. 132.

Seven Sleepers, legend of, in Kerman, xxv. 47.

Sevin, Ch., Esq., Journey to Mexico (mining views), xxx. 1—object of the journey; via New York, Aspinwall, Panama, San Francisco, to Mazatlan; San Francisco, 2—quicksilver mines of Almaden; Sacramento, &c.; Mazatlan, 3—climate, &c., 4—habits, of people; tobacco, 5—preparations to travel to El Fuerte, 7—reports of robbers; set out; river crossing, 8—food on the road; other accommodations; Culiacan, 10—hotel kept by a Chinaman; the mint, 11—population, 12— Indians; set out for El Fuerte, 13— Cinaloa, 14—El Fuerte, 16—Excursion to Chois, Urique, &c., 18 et seqq.—mines of Jesus Maria, 26— Pertinencia, 28 — Corralitos; Huaeaybo, 29 — Batoseagachic, 30 — El Parral, 32—Santa Eulalia; Batopilas, 34—Morelos, 36—copper-mine of Bahuerachic, and hearty reception by English there, 38—the state of Chihuahua, 41—industrial state of the country, 43—return to El Fuerte, 44 —and to Mazatlan, 45—set out for Mexico, 45—San Blas; San Juan de los Lagos, 46—robbers; Guadalajara,

SEXES.

47—Mexico, 48—Real del Monte;

Vera Cruz, 49.

Mining in Mexico. — Causes of ill success of English speculations; the chief companies, 50—Real del Monte; Anglo-Mexican; United Mexican, 51—Bolanos Company, 52—other companies; practical suggestions, 52, 53.

Sexes in Switzerland, proportions of,

xxiv. 313.

SEYAD, oasis in Tripoli, xxii. 132.

Seybo, San Domingo, xxiii. 274.

SEXCHELLES Islands, xxix. p. exci.

SEZACAPA River, Honduras, xxx. 62. SFAKIA, Mountain in Crcte, xxii. 208.

Sgau Karens of Burma, xxvii. 82.

SGIN-MALI-KHA, or Eastern Branch of Upper Irawadi, xxvii. 68.

Shaabeh, Sahra, xxii. 135.

Shaanbah robbers, Sahra, ib. 136.

Shabulshaw, North-East of Persian Gulf, xxvii. 109.

Shadwell, Sir Launcelot, Obit. Notice,

xxi. p. lix. Shagaret Altayar, Hill in North Arabia, xxiv. 128.

Shah Terre Malikabad, near Tehran,

XXV. 2. Shakika, valley land in the Nufudh, Central Arabia, xxiv. 171.

Shala, mountainous pagan country

south of Darfur, xxiii. 121. Shalgan, Zerend, Persia, xxv. 4.

SHAMANISM on the Amur, xxviii. 389.

Shammar tribe of Arabs, xxiv. 141 et seqq. to 206—their horses, 188—camels, ib.—cattle, 189—population, 206; xxvi. 131.

Shamo, or Descrt of Cobi, xxiii. 6.

Shan, people (Indo-China), xxvi. 73—their great diffusion, xxvii. 87.

Shanghae, China, xxviii. 293; xxx. 93,

99.

Shangsha, China, xxviii. 296.

Shantung Province, China, xxviii. 295. Shaour or Shapur River, Khuzistan, xxvii. 122, 124, 126, 128.

Shaoushan İsland, China, xxviii. 292. Sharks, Freshwater, Fiji, xxvii. 237,

239, 241, 257.

—— eaught by dogs, xxvi. 234.

Shark's, or Shark, Bay, West Australia, xxii. 57—expedition towards, see Austin, xxvi. 235, 246, 267-269, 271.

Sharon, Plain of, xxiv. 9.

SHERARAT.

Sharostin, a Russian who passed thirtynine winters, and fifteen years continuously, on Spitzbergen, xxiii. 132.

SHARP the Buccaneer, his voyage cited,

xxiii. 176.

Shash River, or Shashé River, Bamanguato country, a tributary of the Limpopo, xxiv. 289—xxvi. 89, 95, 106, 107, 110.

SHAT-EL-ARAB (Lower Euphrates), xxvi.

153; xxvii. 109, 189, 190.

HIE, canal in Babylonia, xxvi.

——— KAHR, canal in Babylonia, xxvi. 137, 142–144, 149.

———— Nil, canal in Babylonia, ib. 132.

Shawbak, North Arabia, xxiv. 126, 128.

Shawl-wool of Tibet, xxi. 80.

Shayok, village and name given to ono great branch of Indus in Tibet, xxiii. 14, 16, 29, 38, 42, 45, 48—great floods of, 55-57. The river also called *Nubra* River, q. v.

SHEDDEN, bequest of Mr., xxi. p. vi.

Sheep, wild Tibet, xxi. 79—remarkably large in Persia, xxvii. 170—in East Africa, xxix. 392.

Sheikh Salakh's tomb, Dead Sea, xxvi.

62

SHELKHAR ("Glass Castle"), district of Nari in Tibet, xxiii. 4, 16.

Shell accumulations, Indian, in San Domingo, xxiii. 278.

dust borne over the Atlantic, xxvii. 367.

Shells of Louisiade Archipelago, xxi. 16.

SHEM and Joktan as typifying one of the races of Arabia, xxiv. 209.

Shemsabad between Ispahan and Yezd, xxv. 17.

Shemsin, caravan road from Damascus to Homs, xxvi. 54.

Shendoo tribe, Aracan, xxiv. 106, 109, 112.

SHENSI Province, China, xxviii. 290. SHENSHANKYA, Yangtsekiang, xxx. 82.

Shenurin, Lieut., Journey from Nicolaiefsk to Yakutsk (Eastern Siberia), xxviii. 398.

Shepherd's Bay, Aretic Sea, xxv. 253, 255.

SHERA Mountains, east of Valley of Araba in North Arabia, xxiv. 115, 119-121, 123, 126-129 — described, 130-132—formerly in a state of greater cultivation, 134, 136, 137, 150.

SHERARAT tribe of Arabs, xxiv. 122, 126,

SHERIFEH.

130, 135, 137, 138, 148, 149—families of, 150, 158, 159, 163, 168. Sherifeh, mound in Babylonia, xxvi.

Sheringham, Captain; his surveys, xxiv. p. lxxxix.

SHERMARKAY, Governor of Zayla, xxv.

Shetland Islands, the state of the Southern settlements in New Zealand compared to the, xxviii. 315.

-- House Inn, New South Wales, xxii. 230.

Shibah, in Hermon, xxiv. 27.

SHIELDS of East African people, xxix.

Shigar in Balti, Tibet, xxiii. 10, 14,

Shilka River, Amur Land, xxviii. 376 seqq., 393.

Shilkar, River, Amur Land, ib. 431.

SHILKINSK Factory, Shilka River, Amur Land, ib. 393.

SHILLUH Berbers, XXX. 117.

Shingal River, Amur Land, xxviii.

Shingo River, Balti, xxiii. 38.

Shinte or Kabompo, a Londa chief, South Central Africa, xxv. 222, 223.

Ship Cone, Otago Province, xxviii. 308.

Shipping, Arab, xxiv. 210.

Shiraz, eastwards to Fessa and Darab, and thence westwards by Jehrum to KAZERUN in 1850, Notes of a Journey from, by Consul Keith E. Abbott, xxvii. 149.

- City of, xxv. 78; xxvii. 114, 118, 119.

Shire River, xxvi. 112, 114; xxx. 144, 154, 158.

Shish Deh, Fessa, Persia, xxvii. 156.

Shisha, in Monomoese (Ushisha in Unyamwezi), xxvi. 118; and see xxix. 195.

Shkain, canal in Babylonia, xxvi. 144. Shkiyer, Babylonia, xxvi. 135-137.

Sноно tribes, Western Coast of Red Sea, xxv. 217.

Short, Mount, Western Australia, xxii.

SHORTLAND, Commander R.N., Survey of Bay of Fundy, xxi. p. lxvi. 6.

Shoshong, South Central Africa, xxvi.

Shoture Pass of Balkan, xxiv. 61.

Shuab el Haj, or Pilgrim's Pass, on Burton's route to Medina, caravan attacked in, xxiv. 222.

Shuchow, China, xxviii. 293. Shuenli, Yunan, xxvii. 100.

SIERRA.

Shuhada ("The Martyrs"), a stage on Burton's route to Medina, xxiv. 223.

Shuhba, old city, Bashan, xxvi. 49; xxviii. 233, 240.

Shuia River, South Central Africa, xxvii. 354.

Shuka (Saccæa), Bashan, xxvi. 49; xxviii. 242.

Shukkah, a piece of American unbleached cotton-cloth, which forms an important unit in the barter of Eastern Africa, explained, xxix. 57,

Shukshuk Oasis in Tripoli, xxii. 132,

Shukur Kopri, Bulgaria, xxiv. 80.

SHUMELI Canal, Babylonia, xxvi. 134,

Shumla, Turkey, xxiv. 77, 78. Shuru or Shua, Mount, near Kilimanjaro, East Africa, xxx. 129.

Shush, Ancient Susa, xxvii. 110, 122.

Shushan, xxvii. 120.

Shuster, Khuzistan, xxvii. 109, 110, 112, 129.

Shwe Dagon (Rangoon pagoda), xxvii.

- doung gyee Range, North Burma, xxvii. 65, 67.

- gyeen on Sitang River, Pegu, xxvii. 81.

-- li River, Burma, xxvii. 70, 98. - oo-doung, mountain north of Ava, xxvii. 71.

Siaan, Tribe in Tripoli, xxii. 134.

SIAM, Geographical Notes on, with new map of Lower Part of Menam River, by Harry Parkes, Consul at Amoy, xxvi. 71.

- and Cambodia, Travels in, by D.

O. King, xxx. 177.

— and Siamese, xxvii. 88; xxx. p. clxxii.—king of, ib. 194.

-, Survey of Gulf of, xxvi. p. cxcviii.; vol. xxvii. p. cxxvi.; vol. xxviii. p. eli. SIBAYA, South Peru, xxi. 104, 116.

SIBERIA, vast amount of Animal Life in, xxii. 120.

-- Eastern, Scientific Exploration of, xxvii. p. cliii.; vol. xxviii. p. clix. Sichuana Language, Translation of Bible into, xxii. 169.

Sidi-el-Lijeh, a Musulman Saint in Tripoli, xxii. 132.

Sidon, xxiv. 2.

SIERRA of Peru, the Andes portion is so called, xxvi. 211.

— Madre, California, xxx. 2. —, Mexico, *ib.* 8, 9, 15, 21, 27, 41, 43. See also Serra.

SIFAN.

SIFAN, East Tibet, xxx. 182. Sigilmessa, Morocco, xxx. 125.

Sigiri, Ceylon, xxvii. 329.

SIGUATEPEQUE Volcano, San Salvador, xxviii. 351 seqq.

Sikkim, Tibetan name of, xxiii. 2.

SILEVRIA, Rumilia, xxiv. 38. SILICIFIED Trees, Zambesi, xxvii. 366. SILISTRIA, xxiv. 82.

SILKWORMS introduced into Tripoli, xxii. 132.

SILLA, Niger, xxx. 127.

SILURIAN Rocks in Himalya, xxi. 66.

SILVER Mines of South Peru, xxi. 103 seqq.—of Guantapaja, 107—of Santa Rosa and El Carmen, 109—in Tarapaca, xxvi. 229, 230.

--- of Atacama, xxiii. 198 seqq.—statistics of those of Copiapo in

- of North-West Mexico, xxx. 15, 21, 23, 26, 28, 30, 31-34, 36, 47, 49 seqq. See Sevin.

- near the Amur, xxviii. 441.

- Island, Chusan, xxiii. 244. --, Yangtsekiang, xxx. 78,

94, 95, 99.

Shahr-i-Daghianus ("City of Decian"), Ruins in Kerman, Persia, xxv. 47.

Sha'lan, family of the Enezé Arabs (or

Anazeh), xxiv. 149. SIM, Capt. Charles, R.E. See WARD,

xxvii. 328 seqq., 346 seqq. Simerdere River, Rumilia, xxiv. 45. Simoom, Simum (Samúm), effects of the,

xxiv. 217, 222; xxv. 125.
Simpson, Letter from Mr., regarding
Kennedy's disastrous Expedition (about Torres Straits), xxi. 14.

—, Sir George, quoted, xxii. 176,

177, 181, 182.

—, Dr. John, Obit. Notice, xxx. p. cxxi.

—— Strait, Arctic Sea, ib. 84.

———, Fort, British North America,

--- River, British North America, ib. 193.

Simsap, Cambodia, xxx. 179.

SINAI, Mount, xxv. 260; 272 et seqq.; Ascent of (WALLIN), 274.

SINDER, Negroland, XXX. 125.

SINGARE, Tribe of Central Arabia, xxiv.

Singing Birds in Zambesi, xxvii. 375. Suigpho Tribes, North Burma, xxvii. 65, 66.

SMITH.

SINKARA, Babylonian Ruin, xxvi. 148. SINKEAMUN Harbour, Chusan, xxiii. 245.

Sinn, noxious Insect in Kerman, xxv.

57.

SIR DARYA (Jaxartes or Sihun), xxiii. 94—its mouths in the Aral, and changes, 99 — irrigation from its branches, 100.

SIR THOMAS SMITH Sound, Arctic Sea.

See Smith.

SIRAMA River, San Salvador, xxviii. 353.

SIRHAN, a Bedawi Tribe, xxiv. 141.

Sirjan, Kerman, Persia, xxv. 63.

Sissilbe, or Syllebawa Tribe, Negroland, xxx. 119.

SITANG River, Burma, xxvii. 54, 63, 65,

Sitão, Mexico, xxx. 47.

SITKA, Island of, British North America, xxii. 187.

-, Russian America, xxv. 196.

SIVASH, Sea of Azov. See Osborn, xxvii. 133 seqq.

SIWALIK Hills, Upper India, xxi. 59—

Geology of, 66.

Skardo in Balti, xxiii. 14, 15, 43, 57. Skerryvore Lighthouse, force of the waves at, xxiii. 238.

Skotna, Balkan, xxiv. 55.

SLATE Range, Otago, xxviii. 324. SLAVE Trade; on Zambesi, xxii. 168,

170; xxiv. 294, 298.

-, elsewhere in East Africa, xxix. 19, 351—at Zanzibar, xxiii. 108; xxix. 357—at Lake Tanganyika, xxix. 246.

, under name of Free Emi-

gration, xxviii. p. cev.

at Ghadamis, xxx. 260.

SLAVES at Zanzibar, Price, &c., xxix. 356—at Ghadamis, xxx. 257.

SLAVERY; in East Africa, xxix. 350 in Vancouver Island, among the Indians, xxvii. 296.

SLOPE of Arabia, xxiv. 151, 173; xxv.

Smee and Hardy's observations on East Coast of Africa, xxix. 2.

SMEERENBERG, former Dutch settlement on Spitzbergen, xxiii. 130.

Smiadova, Balkan, xxiv. 75.

SMITH, J. H. of Panama, Observations on the Territory of Burica, Province of Chiriqui, Isthmus of Panama, xxiv. 256—position and dimensions; ports; cocoa-nut trees; vegetable products, 257—dyewoods; auriferous richness; climate, 258.

SMITH.

SMITH, G., Survey in South Peru by,

xxi. 104, 110, 113.

- Rev. E., Traveller in Palestine. See Robinson, xxiv. 1, 2, 8, 11, 24. -, Lieut.-Gen. Sir Charles Felix,

Obit. Notice, xxix. p. cxxix.

-, Abel, Obit. Notice, xxix. p. cxxxvi.

– Bay, Northern Coast of America, xxiv. 242.

(Sir Thomas Smith's - Sound Sound) north of Baffin's Bay, xxiii. 137 -entered by Inglefield, 141—quitted,

Smith's Lake (?), Cambodia, xxx. 180. Smoking Mountain on the Amur, xxviii. 380.

- River, xxii. 184.

SMYTH, Admiral (then Capt.) W. H., R.N., Presidential Address to the Society, 1851, xxi. p. lvi.

-, presentation of Foun-

der's medal to, xxiv. pp. viii. lxxvi.

Letter from, with

Hints to Travellers on Observations

and Instruments, xxiv. 334.

-, Professor C. Piazzi; his instrument for angular observations, xxiv. 336—his visit to Teneriffe for scientifie observation, xxvii. p. cxxxii.; vol. xxix. p. clxi.—his "Free Revolver Stand," xxvii. p. cxli.

-, Major Carmichael, xxi. 94.

SNAKE Portage, Saskachewan, xxx. 312.

Snakes in Chusan, xxiii. 250.

SNAPPER Island, North-Eastern Australia, xxviii. 6.

Snow; on Plain of Tibet, xxi. 70—falls of in Ladak, ib. and xxiii. 66—minute form of snow in these, 67—frozen in certain low valleys of Tibet, xxiii. 54.

— Line, in Caucasus, xxi. 4 — of Himalaya, xxi. 69—of West Nari in Tibet, remarks on, xxiii. 68.

- melting as cause of fluctuations

in Tibet River, xxiii. 40.

-- houses, remarks on, by Kennedy, xxiii. 125.

--, Mountains with perpetual, in East Africa, xxi. p. lxxxviii.—discovery of, xxiii. 118; xxvi. 163; xxix. p. clxxxiv.; vol. xxx. 128, 130, 133.

- in New Guinea, supposed, xxviii. 265.

-, Otago, xxviii. 310. —— Owls in Victoria Land, xxii. 89. Snowy Mountains of Peru, xxvi. 213.

Soba, Palestine, xxiv. 12. Sobeir (called *Xebire*), near Basrah, xxx. 198.

SONSONATE.

Socabones or subterraneous adits for South irrigation in Peru, xxi. 111.

Sociedad Voleano, San Salvador, xxviii. 350 seqq.

Soda, Nitrate of. See Nitrate.

Sodom and Gomorrah, xxvi. 68.

Sofala, East Africa, xxvii. 386; xxx.

Sofara, Negroland, xxx. 122. Soga, South Peru, xxi. 120.

Soke Harbour, Vancouver Island, xxvii. 270, 273, 282, 287.

- River, and Indians, Vaneouver Island, ib. 270, 294, 295.

Sokna, Fezzan, xxiv. 277, 278, 280, 281.

Soкoto, Sakatu, Negroland, xxx. 124. See Sakatu.

Sok-po, Tibetan name of Mongols, xxiii. 2. See Sok-yul.

Soktui Pass, Russo-Mongol Frontier, xxviii. 414.

Soktusk, Russo-Mongol Frontier, ib. 416.

Sok-yul, Tibetan name of Mongol country, xxiii. 2.

Solander Island, New Zealand, xxviii. 312.

Solar Rays, high temperature of in Tibet, xxiii. 62.

Solimoes, or Upper Amazon, xxiii. 213, 214.

Soloiva, Fiji, xxvii. 242, 246, 247.

Solomon, the alleged Founder of Al Jauf, North Arabia, xxiv. 144.

Solons, Tribe on the Amur, xxviii. 445. See Zolons.

Solurna River, and Ridge, near Sea of Okhotsk, xxviii. 404.

Solway Frith Surveys, xxvi. p. cxciii. Somania, Khuzistan, xxvii. 110.

Somaul, Somali, people of the easternmost point of Africa, xxv. 136, 137, 139-141, 145, 148—attack Burton's party, 149, 150, 206—a few words of their language, 214.

Somsethi and Trialethi Ridges, Caucasus, xxi. 2.

Sonaparanta (" Aurea Regio"), Burma, xxvii. 73.

Songhay Race and Language in Negro Land, xxi. 145; xxx. 117, 119, 120, 125-128.

Sonora State and City, North-Western Mexico, xxx. 6, 12, 14, 15, 17, 26, 27, 38, 41, 43, 44. Sonray, Negro Land, xxiv. 283.

Sonsonate Department and River, San Salvador, xxviii. 353 seqq.

SONTA.

Sonta River, North of Lake Ngami, xxii. 165.

Soquati's Kraal, Transvaal, xxii. 139.

Sorcery, Namaqua, xxv. 104.

Sorgu Tawarik or Sergu, of the Sahra, xxiv. 145.

Sorila Mountain, South Central Africa,

xxii. 169; xxv. 91. Sorman, Oasis in Tripoli, xxii. 132.

Soroche, a dangerous affection of the lungs in the High Andes, xxiv. 260.

Sorora, Unyamwezi, xxix. 190.

Sotoca, Sibaga, South Peru, xxi. 117.

Soun-Damup, Race of Negroes West of Lake Ngami, South Central Africa, xxii. 150, 155, 156, 158.

Sounds of Drums in a part of Desert of North Arabia reported to be heard, xxiv. 120.

South Africa, Coast Surveys of, xxvi. p. exevii.; vol. xxvii. p. exxv.; vol. xxviii. p. cxlix.; vol. xxix. p. cxliv.:

vol. xxx. p. cxxxvi.

America; Geographical Work and progress in relation to, xxi. p. xeiii.; vol. xxii. p. cv.; vol. xxiii. p. cxix.; vol. xxiv. p. ei.; vol. xxv. p. exxix.; vol. xxvi. p. exxii.; vol. xxvii. p. clxxxvi.; vol. xxviii. p. elxxxi.; vol. xxix. p. ccix.; vol. xxx. p. clvii. See also List of Papers, and under America, Coast Surveys.

— Australia, Steam Communication with, xxvi. 187—explorations from,

xxix. p. cexii.

- Pass, Rocky Mountains, xxi. 94. -- West Monsoon, Theories regard-

ing, xxviii. 369.

Southern Colonies (Australia and the Cape), on Steam Communication with the, by Capt. J. Lort Stokes, xxvi. 183.

Sovereign of the Seas, Clipper, details of her extraordinary voyage, by

Maury, xxiii. 240.

Sowakin (Suakin), Red Sea, xxv. 218. Spain and Portugal, Geographical work noticed, xxii.p.cv.; vol.xxv.p.ev.; vol. xxvi. pp. cciii. ccvi.; vol. xxvii. p. cxliii.

--, Trigonometrical Survey of, xxvi. p. eciii.; vol. xxvii. p. exliv.

--, Geological Survey of, xxvi. p.

cciii. -, Coast Surveys of. See Coast Sur-

veys.

Spanish documents respecting Darien in Mr. Arrowsmith's Collection, xxiii. 179—Surveys of the Isthmus, 177– methods of survey, and their early exeellenee, 178.

SPRATT.

Spanish Main, xxiii. 179.

Sparta, Philip (V.), King of Maeedonia's campaign against, xxviii. 8. Spasini Charax (on Lower Euphrates),

xxvii. 187–189.

Spasmodic complaint affecting Kane's party in winter, xxvi. 5.

Speed attained by a sailing vessel. See

Maury, xxiii. 240.

Speke, Capt. J. B., xxv. p. exx.—a member of Burton's Somali Expedition, ib. 137—severely wounded at Berbera, 149, 150—joined with Burton for expedition inland from Zanzibar, xxvii. p. clxx.—their progress, xxviii. p. ccvii. — their initiatory operations, see Burton, xxviii. 188 seqq.; xxix. pp. clxxix., 8 seqq., 17, 20—explores Islands of Lake Tanganyika, 246—his journey to Lake Nyanza, 260 seqq.—his second great interpret to explore the Nile garree. journey to explore the Nile source, xxx. p. elxii.

Spencer, Earl, Obit. Notice, xxviii. p.

cxxxvi.

Sperchius River, xxvii. 13.

Sphere, Projections of the. See Her-SCHEL, XXX. 100; and James, XXX. 106.

Spijoen Kop, Mountain, Bushmanland, xxviii. 166.

sPin, British Tibet, xxiii. 14, 15.

Spinster's House in villages of the Wanyamwezi, East Africa, xxix. 198, 201.

Spirit drinking in Manchuria, xxviii. 436.

sPiti, British Tibet, xxiii. 11, 14-16, 20, 27, 30, 36, 37, 44, 45, 59.

Spitzberg Peak, Bushmanland, xxviii. 166.

Spitzbergen, inferior to North-Western Siberia in Animal Life, xxii. 121; see PETERMANN, XXIII. 129—and Ingle-FIELD, XXIII. 137—drift of ice from, to Greenland eoast, XXVI. 36.

Spratt, Capt. T., R.N., C.B., on Route between Kustenje and Danube, Kara-su Lakes; and means for rendering communication practicable, xxvi. 203—Kustenje, 203—wall of Trajan, 204—harbour, &c.; route to Chernavoda, 206—Kara-su Lakes; the Danube, 208 — Rassova; means required to preserve the navigation of the lakes, 210. See also xxvi. p. cxcvi.

-, On Serpent Island, xxvii. 220 — the only real island in the Black Sea; structure; temple of Achilles, 221—fragments of antiquity; Arrian's account, 222—

SPRATT.

the serpents; lighthouse, 223 — a natural beacon to the Danube.

SPRATT, Capt. T., R.N., C.B., extract of a letter from, on Crete, xxiv. 238.

Springbok, Little Bushmanland, xxviii. 168.

Springhaan Kolk, "Locust Pool," Little Bushmanland, xxviii. 165.

Spruce River, Notes on Canelos District of Ecuador, given by Mr. PRITCHETT in his paper on Ecuador (q. v.), xxx. 71.

Squier, E. G., Account of Lake of Gojoa or Taulebe in Honduras, xxx. 58—Lakes of Central America; Lake of Itza, 59—of Yojoa; Col. Stanton and Mr. Edwards; size and position; bolsones, or peculiar basins; open outlet of Yojoa, the River Jaitique, 60—additional subterranean outlets, 61, 62—ten in all; remarks, 63.

Squirrel with singular call, Aracan, xxiv. 93.

STALAGMITES, Remarkable, San Lorenzo, San Domingo, xxiii. 277.

Stamata, Marathon, xxvii. 17.

STANLEY, CAPT. OWEN, R.N.; Note from to the Secretary (with some papers on NEW GUINEA, &c.), xxi. 13—mountain range with peaks from 10,000 to 12,800 feet high; natives; fate of Kennedy's expedition; rescue of an Englishwoman from natives near Cape York.

Letter from J. B. Simpson, Master of the brig 'Freak,' sent by Government at Sydney to search for papers connected with late fatal expedition

under Mr. Kennedy, 14. Sketch of Natural History of portions of the Louisiade Archipelago and New Guinea, by John Mac Gillivray, Naturalist to the 'Rattle-snake,' 15.

Louisiade Archipelugo. Geology; botany; mangroves; Rattans, 16pitcher-plants; vegetation of low coral islands. Mammalia; birds; reptiles; fishes; shells, 17; insects.

South-Eastern Coast of New Guinea. Geology; botany; bread fruit; sago-palms, 18—mammalia; birds, Cassowary and Hornbill; fishes; Dutch expedition to New Guinea.

-, Lord of Alderley, Obit. Notice, xxi. p. lix.

STANLEY'S Range, New Guinea, xxi. 17. - Island, Arctic America, xxv. 253.

STOKES.

STANNUS, Major-Gen. Sir E. G., Obit. Notice, xxi. p. lix.

STANSBURY, Capt., Survey of Utah by, xxiii. p. cxiv.

STANTON, Col. E., R.E., XXX. 59.

STAR Maps, xxx. p. clxxxix.

STAREKA, Balkan, xxiv. 66, 67. STATISTICS of St. Helena, xxx. 266.

Statue, discovery of a Babylonian, xxvi. 144.

STATURE of New Zealanders, and comparison with soldiers of the 58th Regiment, xxiii. 87.

STAUNTON, Sir G. T., Obit. Notice, xxx. p. cxxiv.

STAVROKORAKI, Mount, Marathon, xxvii. 16, 21, 34.

STEAM communication with Australia and the Cape. See Stokes, xxvi. 183.

STEAMERS on the Amazons, xxv. 158. "——," Maury's "Lanes for," xxvi. p. exxxiii.

Steelport, Transvaal, xxii. 139.

STEEP Head, North Australia, xxviii. 21, 24, 26, 27, 30, 34, 75, 79.

Washington STEILACOOM, territory, xxvii. 316.

STEINHAUSER, Dr., XXIX. 8.

STEINKOPF (South Africa), Journey to, from Colesberg, in 1854-55. Robert Moffatt (Jun.), xxviii. 153. -, *ib*. 172.

Stephenson, Robert, c.e.; Observations on the Suez Isthmus, xxi. p. lxxxiv. —Obit. Notice, xxx. p. exxi.

Steppe defined, xxviii. 411. Sterk Spruit, Transvaal, xxx. 250.

Stevens, Governor; his exploration of communication from the Mississippi

to the Pacific, xxiv. p. ci. Stewart Island, New Zealand, xxi. 27; xxxviii. 313.

STICTINA (Es-Sukhna?), ancient city in Syrian Desert, xxx. 209.

STIJERKRAAL, Orange River, xxviii. 175.

STIRLING Range, Western Australia, xxii. 2, 34.

STOKES, Capt. J. Lort, R.N.; Survey of south part of the Middle Island of NEW ZEALAND, XXI. 25.

Seaboard examined from Otago to Preservation Harbour; port rivers and roadsteads; Orete River, or New River; view of the prairie land; ascent of New River; Mataura and Jacob River; fine country west of the Molyneux or Clutha River, 26—climate; a disability of purchasing the native rights; Stewart Island, 27STOKES.

its harbours and timber; stories of the beaver; coal; lignite, 28—further notes by the editor; Memorandum of expedition into the interior of Middle Island by Mr. Dashwood and Capt. Mitchell. (This does not admit of intelligible abstract; the journey lay in the north-east part of the island from the Waiopai River, along the Acheron Valley, and then to Canterbury.) Note by Mr. Tuckett on the land about the Orete or Eurete River described by Capt. Stokes, and unfavourable to it for settlement,

THE SAME referred to, xxi. p. lxvi.

STOKES, Capt. J. Lort, R.N.; On steam communication with the Southern Colonies (Australia and the Cape of

Good Hope), xxvi. 183.

Route from Australia by Torres Strait to Singapoor recommended; dangers of Torres Strait exaggerated, 184—the course to be followed; advantages of the route; opening commerce with the archipelago; looking also to future settlements in Northern Australia, 185—suitable position for a penal settlement, 186—bearing of the French establishment in New Caledonia on the question, 187 — branch from Aden viâ Mauritius, &c., to Cape of Good Hope advocated, 188.

See also xxvi. p. ccxxvii.

—, Major J., R.E.; Notes on the Lower Danube, xxx. 162.

Danube from Iron Gates to Gallatz; navigation, 163 — Delta fork; Kilia branch; St. George's branch, 164 — Sulina branch; the Chouga, 165—extraordinary floods; character of Delta, 166—its growth and changes; littoral current, 168—measurements of Danube discharge; schemes for deepening entrance of river, 170—navigation and produce,

--, Charles, Obit. Notice, xxiv. p. lxxxiv.

- Inlet, Western Australia, xxii.

- Range, North Australia, xxviii. 34.

STONE doors of cities in Bashan, xxviii. 251.

STORMS, see CYCLONIC.

STRABO on Aradus, xxiii. 154—on Trichonium, xxvii. 5-on the Euleus,

STRACHEY, Capt. Henry; On Physical

STRACHEY.

GEOGRAPHY of WESTERN TIBET, XXIII.

Names of the country and people, Tibet, Bod, Bhot, Hun, &c.; Tibetan names for China, India, Russia, &c., ib.—for adjoining provinces, 2—Eastern Tibet not included in this paper; Bod or Central Tibet and its subdivisions; Lhasa, Tashi, Lhunpo, 3-Nari, or Western Tibet, and subdivisions, 3, 4—countries n.w. and n.e. of Nari almost unknown; Tibet extends to borders of Gilgit, 5—northern slope towards Khotan, 6—Chinese-Turkish provinces of Kashgar, Yarkand, and Khotan, ib.—lawless tribes Khampa (nomads) or Rundur north of Central Tibet, ib.—General River System; the rTachok Tsangspo (Horse River), supposed Brahmaputra, 7 — Senge Tsangspo (Lion River), the chiefs of Indus, ib.—Langchen Tsangspo (Elephant River), or Sutlej, 8—hydrographic position of Western Tibet in regard to whole breadth of Middle Asia, ib.—the great South Asiatic watershed; main watershed not identical with crest of great Himalaya range, *ib.*—penetrating valley heads; general character of the Tibetan table, 9—transverse watershed dividing rTachok from Lanchen and Senge unvisited, ib.

West Nari in detail, 10—European exploration, ib. — length; breadth uncertainly known; approximate area, 11—general division into Nari-Khorsum and Mariyul, ib.—their great characteristics. Geographical Subdivisions, Khorsum ("Three Tracts"), divided into Ruduk, Guge, Purang, and a fourth, Gar, 12. Subdivision of Purang; of Guge, 13-of Ruduk, ib.—Mariyul ("The Low Country"), now Ladak, and Balti. The last Mahomedan. Ladak, its subdivisions, ib.—Zangskar, 14, and sPiti (British).

Balti and subdivisions, ib.

CLASSIFED LIST OF THE TIBETAN Provinces and Subdivisions, 15.

Natural divisions by Tibetan geographers into Lhogyut or South Lands, Zhunglam or Midway, Changyut or North Lands, 16—vertical form. ation of the table-land, ib.—alluvium, 17—and its apparent history, 18fossil mammalia, 19—some geological facts, ib.—and impressions as to upheaval, &c., 20.

Natural classification of Table-land

STRACHEY.

into Rong (warm valleys containing such) and Changlang ("northern plains," high and cold pastures), 21 Distribution of the country between these two, 21, 22. Mountains of West Nari, general plan, 23—longest ascertained ranges, 24—height of vari-Capt. R. Strachey's ous ranges. measurement of peaks in Khorsum, 25—passes and their heights, ib.—no native names for ranges, 26. Valleys; general sketch, ib.—longest instances of flat bottom, 27—breadth, 28—contracted gorges in the Rong, 29—valleys of Ladak, ib.—lowest depressions, 30—elevations, remarkable flatness of main valleys, 30.

Great alluvial Plateau of Guge, 31-33.

Mean Elevation of Table-land, 33. Rivers, 34—mode of naming, ib.—mythological names of the great rivers, ib.—sketch of the drainage, 35—table with estimated areas of basins, 36—watersheds; direction of principal rivers, 37—approximate lengths of principal rivers, 37-40—volumes, 40-44—fall of rivers, with a table, 44, 45.

Lakes, 46—the Pangong, ib.—its saltness, 47—Tso Rul and Tso Shaldat, ib.—lakes of south-east Nari, the Konkyu, Mapham (Manusarawar), and Langak (Rawan Rad), 48-50—the Tso Moriri, 50—distomosis of a river, ib.—lakes of North Rupshu, 51—small fresh-water lakes, 52.

Glaciers, 52—chief reservoir on south face of Turkish watershed, 53 -glaciers of Kumdan, ib.—permanent beds of frozen snow below the ordinnary snow-level, 54. Debacles in the great valley of the Mariyul changyut, 55-57 — not connected with Indus floods in the plains, 57. Subterranean, 57—hotsprings, 58—earthquakes, ib. Climate. Temperature, great diversities, 58—winter climate at Lé; freezing of the rivers, 59—summer temperature, ib.—climates of greater elevation, 60—freezing of the salt lakes, 61—some inferences as to temperature in highest accessible elevations, 61—great heat of sun's rays, 62 attempted experiments to ascertain temperature of earth at Lé, &c., 63 mean temperature of Central Ladak, 63.

Barometric pressure, 64. Winds, ib. Clouds, 65. Moisture, ib. — extra-

STRACHEY.

ordinary dryness of Ladak, 66—snow-falls, ib.—rain, 67—form of snow in Ladak, ib. Electricity, absence of thunderstorms, 67. Snow-line, 68-69. Strachey, Capt. Henry, xxi. 58, 62, 64, 70, 77, 79—Patron's Medal awarded to, and short account of his explorations in Tibet, xxii. pp. lviii., cvii.— services to Himalyan geography, xxviii. p. clxxxvii.

the Physical Geography of Kumaon and Gurhwal in the Himalya, and of adjoining parts of Tibet, xxi. 57.

Correctness of Humboldt's views as to the formation of Central Asia; the high lands of its southern border the subject of this paper; limits of this high land, 58—general character as a great protuberance from earth's surface; the author's remarks specially refer to the provinces named above; Configuration of Surface, 59 -Plain of India; Siwalik Hills; Dúns; Tarai, 60—mountain region; great peaks, 61—valleys; passage into Tibet and its plain, 62—this elevated plain; the vast ravines cutting it; lakes; Rakas Tal and Manasarowar, 63—source of Sutlej; of Indus, 64—of Ganges; of Brahmaputra; systems of drainage, 65. Geology; parallelism of feature; strike and dip of strata, 66—Siwalik Hills; central region; silurian strata; muschelkalk and oolite, 67—tertiary plain of Tibet; fossils; eruptive rocks of Tibet, 68physical unity of Tibet with the Himalya; Meteorology, 69—importance of inequalities on earth's surface in relation to height of the atmosphere; perpetual snow; snow-line on south face; on the north; probable cause of difference, 70—trifling falls on the high plain; production of excessive rain on windward faces of mountains in tropics; glaciers, 71motion; ancient extension; ancient moraines, 72; corroborative facts; climate; botany, 74—tropical zone; temperate, 75—upper forest region, 76—alpine; Tibetan plain, 77—limit of vegetation; agriculture, 78. Zoology, 79—of Tibet; Yak; wild sheep; birds, &c.; Yak mule, 80—ponies; Ethnography; Hindu tribes, 81— Khasiyas; polyandry, 82—language; history; mixed races, 84—Tibet; the term Hiundes, 85. —--, xxi. p.

STRACHEY.

lxxx.—acknowledges gold medal on behalf of his brother, xxii. p. lxi. his own explorations, p. cviii.—his measurements of Himalyan snowline, Tibetan heights, &c., xxiii. 25, 32, 33, 49, 68—his services to Himalyan geography, xxviii. p. clxxxvii.

STRACHEY, John, B.C.S., XXI. 80.

STRAIN, Lieut. U.S.N.; his explorations and hardships in Darien, xxvii. 191, 196, 197, 199, 202.

Stratos, Ætolia, xxvii. 4, 6.

STRICKLAND, Hugh E., Obit. Notice, xxiv. p. lxxxv.

Stranja Mountains, Rumelia, 38.

STROMNESS Bay, Vietoria Land, xxii. 86, 93.

Stroyan, Lieut., a member of Burton's Somali expedition, xxv. 137—killed at Berbera, *ib.*, exx. 149, 150.

STUART, J. Macdougall, premium assigned to, xxix. p. viii.—his explorations in Australia, p. ecxiv.; vol. xxx. p. clxxvii.

Sturgeon Dam River, British North America, xxii. 179.

—— River, British North America, xxii. 182.

- Lake, British North America, xxx. 269.

STURT, Captain; his explorations of the Murray and Murumbidgí, xxv. 178.

— Point, Victoria Land, xxii. 86. — Creek, North Australia, xxviii. 56.

Strzelecki, Count, acknowledges premium for Mr. Macdougall Stuart, xxix. c.

Suaba River, South-East Africa, xxx. 144.

Suakin, Red Sea, xxv. 218.

Suber, Arab tribe, xxiv. 186.

Subha, Moab, xxvii. 252.

Sub-Himalayan tract, xxi. 59.

Subhiyeh, in Moab, xxviii. 252. Subsidence of the Aral Sea, xxiii. 98.

Succession customs in East Africa, xxix. 360.

Succoth, xxiv. 212.

Suchitoto, San Salvador, xxviii. 351.

Sucio River, Atrato, xxvi. 176.

—, San Salvador, xxviii. 352.

Suda Bay, Crete, xxiv. 238. Sudan, xxi. 131—Eastern, xxiii. 120.

Suder, wells on way to Al-Jauf, North Arabia, xxiv. 136.

Suez Canal; levelling operations on the Isthmus disprove the difference of level in the two seas, xxi. pp. lxxxiii.

SULTAN.

lxxxiv.; vol. xxv. p. cxx.; vol. xxvi. pp. exevii., eexv.; vol. xxix. p. elxxxvi.

Suez Desert, xxiv. 115. —, Gulf of, xxiv. 227.

Sufayra, Hejaz, xxv. 127.

Suffolk Island, Arctic Sea, xxviii. 371.

Suffork, Arab tribe, xxiv. 187, 195.

Sugar cane; culture in Shirwan, xxi. 6—among the Makololo, xxii. 168 and sugar in Burma, xxvii. 73.

- Candy exported to Russia at

Kiakhta, xxiv. 311.

- Loaf, Baffin's Bay, xxiii. 138.

· Mountain, San Domingo, xxiii. 270.

- Mills, ruins of the," name of a ruin on the Dead Sea, xxvi. 63, 64.

Suhneh, in Syrian Desert, xxx. 209.

Suia, Crete, xxiv. 238, 239.

Suicide in East Africa, xxix. 329.

Suikerbosch Rand, South Africa, xxii. 138.

Sujiler, Balkan, xxiv. 53, 76. Suk, Antilibanus, xxvi. 43, 44.

— el Berada, Syria, xxiv. 29. — el-Sheroukh, Lower Euphrates, xxvi. 142, 145, 151. Sukadana River, Borneo, xxiii. 70.

– State, Borneo, xxiii. 81– meaning, 83.

SUKAKA, or Skaka, near Al Jauf, Arabia, xxiv. 151, 158.

Sukhnin (Sogane), Galilee, xxiv. 7.

Sulaba, Arab tribe, xxiv. 168.

Suleim (Neapolis?), Bashan, xxvi. 50; xxviii. 259.

Sulimanabad, Kerman, Persia, xxv. 26. Sulina Mouth of Danube, xxx. 164. 167.

Sulivan, Captain, Baltie surveys of, xxv. p. c.

Sulkhad (Salcah), Hauran, xxvi. 51, 52. See Salkhad.

Sullivan, Mr., of Palliser's expedition, xxx. 268, 276, 283, 287, 288, 294, 309.

 Peak, Rocky Mountains, xxx. 301.

Sulphur Springs, South Peru, xxi. 105. ——— Mine of Milo, xxii. 219.

——— Works, Mexico, xxx. 54, 55.

Sultan of Agadez, investiture of, xxi. 139—history of, 149.

Ya'kab, village Cœle Syria, xxiv. 30.

— Mahmud of Turkey, xxiv. 43. - Kimwere, Visit to (of Usumbara, East Africa), by Capt. R. F. Burton, xxviii. 202.

SULTANABAD.

Sultanabad, between Tehran and Kum,

–, Kerman, Persia, xxv. 60. - Fars, Persia, xxvii. 113.

Sulvi, Amur, xxviii. 441.

Sum'a, a grotto town, south of Hebron, xxv. 288.

Sumaydat, family of Bedavins, xxiv.

SUMMER warmth rules the number and bulk of plants and animals, xxii.

Summy River, Washington territory, xxvii. 315.

Sumpul River, San Salvador, xxviii. 350 seqq.
Sunamein, Trans-Jordan, xxvi. 46.

Sunday Island, Kwora River, xxv. 110.

SUNGAI. See Songhay.

Sungari River, Manchuria, xxviii. 381, 384-386, 392-395, 397, 410, 435, 438,

Sungue, Zambesi, xxx. 159.

Sunium, Cape, xxvii. 24.

Supanburi, Siam, xxvi. 76.

Superior and Inferior Tribes, Africa, xxix. 312. Compare xxx.

-, Lake, climate of Upper, xxii. 176—height of, 178.

Suppine, near Aleppo, xxx. 210. Sur'a (Zorah), Palestine, xxiv. 12.

Survey of Tarapaca in South Peru. See Bollaert, xxi. 99 seqq.; also p. 104.

Account of Mr. Galton's, in South-West Africa, xxii. 160.

- for Canal from Lake Nicaragua to Pacific, p. xxi. 96.

Surveys. See Admiralty, Coast, India, Ordnance, &c.

Surveyor's life (alleged) in India and in New Zealand, contrasted, xxviii. 327.

Surucco River, near Isthmus of Darien, xxvi. 175.

Susa, site of, xxvii. 120 seqq.

Susiána, xxvii. 120.

Suspension bridges in Yunan, xxvii. 89, 90.

Sussex Lake, Arctic America, xxvi. 19, 25.

Susu people, Negroland, xxx. 118.

SUTHERLAND, Dr. P. C.; Remarks on three-hourly Meteoroseries of LOGICAL and other Observations on Voyage from London to Algoa Bay,

Results of dredging, 257 — barometric observations, 258—thermo-

SYKES.

metric; temperature of the sea; currents off South African coast, 259.

See also xxv. p. xcvii. Sutherland, Dr. P. C.; On Greenland

ice, xxiii. p. lxxxiii.

Sutled River in Tibet; its great ravine, xxi. 62; xxiii. 32, 33—sources, xxi. 62; xxiii. 8, 9, 35—area of basin, 36 —its length, and that of its affluents, 38—volume, 43—fall, 44, 45; 17, 19, 30-33, 37, 50.

SUTTOR River, North-East Australia,

xxviii. 120.

Suwayrkiyah, Hijaz, xxv. 126.

Suweid, Arab tribe, xxiv. 186.

Suweideh, Bashan, xxvi. 50, 52; xxviii. 258.

Suyek, Amur, xxviii. 440.

Sverbeef, Cape, Amur, xxviii. 384. Swaje on Lower Euphrates, xxvi. 151,

Swakop River, Walfisch Bay, xxii. 144 —deep cutting in which it flows, 145, 146—source of, ib.

Swallows' nests, esculent, exist in Borneo, but inferior, xxiii. 75.

SWANHILL, Murray River, South Australia, xxv. 180.

Swans in Siberia, numerous, xxii. 121. SWART River, Damara Land, xxii. 153. SWARTBOY, tribe of Hottentots, xxv.

Sweden and Norway, geographical work of, noticed, xxi. p. lxxiii.; vol. xxii. p. xcvi.; vol. xxv. p. xci.; vol. xxvi. p. cev.; vol. xxx. p. clxxxiii.

Sweet potato, among the Makololo, xxii. 168—East Africa, xxix. 74.

Swenny, Private of Royal Sappers and Miners, with Dr. Vogel, xxiv. 280.

SWITZERLAND, Summary of last Census of, by Prof. Paul Chaix, xxiv. 313.

-, geographical work, surveys, &c., reviewed, xxii. p. c; vol. xxv. p. cvi.; vol. xxvi. p. cciv.; vol. xxvii. p. exlvi.; vol. xxviii. p. elxxi.; vol.xxix.p.clxviii.; vol.xxx.p.clxxxv. Sydney, xxvi. 184, 187.

Sykes, Colonel; Notes on the Climate and Productions of Zanzibar, and on Prospects of African Discovery from

Mombas, xxiii. 101.

Meteorological observations ceived from Zanibar, 101-difficulty of finding information regarding that region, 102—instances of the vagueness of information from Rees's Cyclopædia, Penny Cyclopædia, Horsburgh's Directory, 103, and this Journal, 104—these islands coral, SYKES.

resting on sub-marine mountains, ib.

Report on political relations of Imaun of Maskat, and on Zanzibar, by Capt. Hamerton, Consul at Maskat, 104—articles of trade from Zanzibar, Pemba, and the mainland, 105—imports, customs, Indian traders; Capt. Hamerton's view of the climate of Zanzibar, of crime, and justice there.

Journals of Missionaries Krapf and Rebmann; field of geographical discovery which they point to, 105—limits of the Imaun's sovereignty on the coast, *ib*.

Lieut. Fergusson's account of Zanzibar from oral information of a Mahommedan merchant, 105—the Imaun; appearance of Zanzibar; Palaee, 107—population; elasses of the people; appearance of the natives, male and female; longevity; marriage; cleanliness; food; cattle and horses; birds and animals; timbertrees, 108—other useful trees; diseases; markets; trades; exports, imports, and shipping; slave-trade; government; crime, 109; soldiers and police, &c.

A comprehensive view of the Imaun's territories still needed, ib.

Meteorological observations; remarks on, ib.—tables, 110—remarks on temperature, 111—moisture, ib.—winds, ib.—rain, 112—clouds, 113—hygrometrical tables of places in the Indian Archipelago as compared with Zanzibar, 114—remarks on unhealthiness of African littoral, 115.

Prospects of African discovery from Mombas, 116—notices of Krapf and Rebmann, ib.—extracts from Krapf about the inhabitants, the interior, &c. Further notices of the journeys of the missionaries, 118—their discovery of the snow-mountains Kilimanjaro and Kenia, ib.—these mountains probably the source of the Nile; and possibly of the Niger also, 119—tho unity of language (as regards family) in this part of Africa will facilitate exploration, which seems here invited.

SYKES, Colonel, on the Use of Thermometers to determine Heights (a reprint from vol. viii.), xxiv. 340.

 SYZA.

by Dr. Buist, communicated by, xxi.

Syllebawa, or Sissilbé, tribe, Central Africa, xxx. 119.

Symes's Mission to Ava, xxvii. 54, 84. Symonds, Sir William. Obit. Notice,

xxvi. p. clxxxvi.

of Dead Sea Level, &c., referred to, xxiii. 171; also see Aldrich.

Symplesometer, Mountain, xxi. 37; xxiv. 336, 337.

Synge, Capt. M. H., Proposal for a Rapid Communication with the Pacific and the East, viâ British North America, xxii. 174.

Proposed communication eonsists of independent parts, 2, 174—1. Land and Water routes through Canada, 175—2. River system of Lake Winnipeg to the foot of the Rocky Mountains—3. River system to the Pacifie, ib.—

climate on the line, 176.

1st. New link at St. Mary's Straits between Lake Huron and Lake Superior, 176—2nd. Lake Superior to Rainy Lake, and so to Rainy River and Lake of the Woods, 177—glowing account of these valleys, and their products, *ib.*—Richardson and Simpson quoted, *ib.* and 178—heights of the lakes named, 178—minute examination necessary, 178—3rd. Lake of the Woods to Lake Winnipeg.

Red River Settlement, 179—4th. Rapids of Saskatehewan, 180—fertility of eountry which this would open, 181—5th. Passage of the Rocky Mountains, 182—Lake Wollaston discharges into both seas, 183—Mackenzie River system, 186—6th. Descent to the Pacific, 192. Appendix showing tabularly the points of superiority for this route over others to Sydney, New Zealand, China, 194.

Syphilis, prevalence of in a village of North Arabia, xxiv. 152.

TER, POOLE, GRAHAM, and WALLIN.
SYRIAN Desert, xxiv. 135, 136. Also
Diary with Sir Eyre Coote, xxx. 198

Syriac language spoken in three villages of Antilibanus, xxvi. 46.

Syrtes, xxx. 112.

Syza, Amur, xxviii. 440.

TÁALA.

T.

Táala and Ta'alla, ruined towns in Bashan, xxviii. 243.

Tab River, east of Persian Gulf, xxvii. 109.

Tabaret Volcano, San Salvador, xxviii.

Tabatinga, Rio Negro, xxiii. 216.

Tabe, Shammar country, Arabia, xxiv.

Tabighah, Galilee, xxiv. 23.

Table-land of North-Western Australia, xxviii. 138.

- of Tibet, xxiii. 9, 16, 33. Table of Aneroid Observations compared with barometer, by Colonel Yorke, xxi. 38.

- of experiments with aneroid,

by Dr. Buist, xxi. 52.

- to facilitate calculations of barometrical heights, by Dr. Buist, xxi.

- of prices at Agadez, xxi. 148.
- of distances travelled daily by

Dr. Rae in Arctic Regions, xxii. 82. of thermometric observations in Arctic regions, arranged according to latitude, by A. Petermann, xxii.

of mean monthly temperatures at Alexandria, by H. Thurburn, xxii.

- of latitudes and lunars in South Africa, by Mr. Galton, xxii. 161-163.

of Kennedy's Meteorological Journal in Expedition in Central Australia, xxii. 272.

of provinces and districts of Tibet, by Capt. H. Strachey, xxiii.

- of areas of river basins in Tibet. xxiii. 36.

- of stature, strength, &c., of New Zealand, by Dr. Thomson, xxiii. 87

of astronomical points fixed on the Aral, by Capt. Butakoff, xxiii. 101.

- of summary of census of Switzerland, xxiv. 316.

- of latitudes, variations, and heights in South Africa, by C. Andersson, xxv. 106.

— of positions on Kwora and Chadda, by Dr. Baikie, xxv. 121.
— of altitudes in the Valley of Beaufort, Savoy, xxv. 188.

— of positions in Polar Sea esta-

TADEMEKKAS.

blished by H.M.S. Enterprise, Capt. Collinson, xxv. 205, 206.

Table, chronological, of 400 cyclonic hurricanes, xxv. 293 seqq.

of voyages between Copenhagen

and Greenland, showing particulars of ice and its drift, xxvi. 38.

— of altitudes, &c., in Otago province, by Mr. Thomson, xxviii.

332, 333.

of distances accomplished daily by Furious in ascending and descending Yangtsekiang, xxx. 92, 93.

astronomical determinations by Palliser's expedition, xxx. 303-307.

statistical, touching port and settlements in Mozambique, xxx. 159-

Tables, meteorological, of country between Black Sea and Caspian, xxi. 11, 12.

- of statistics of mines of Copiano.

by Col. Lloyd, xxiii. 207 seqq.

- of positions and elevations in Central Africa fixed by Drs. Vogel and Barth, xxiv. 282-5.

- of positions fixed by Dr. Livingston in early part of his journey, xxiv.

301, 302.

· connected with calculation of heights by boiling-point, xxiv. 342. - of results of Livingstone's observations from the Leeba to Angola,

xxvi. 82 seqq. - connected with hydrography of Valley of Arve River, by Chaix, xxvii. 225 seqq.

of heights by boiling point on the Zambesi, by Livingstone, xxvii.

- of temperature on the Victoria, North Australia, xxviii. 143.

of rivers and lakes in San Sal-

vador, xxviii. 354, 355.

of amount of daylight in Arctic winter, by Captain Osborn, xxviii. 374, 375.

Tabor, Mount, xxiv. 22.

Tabritong, New South Wales, xxii.

Tabu (Tambu) of pigs, &c., in Fiji, xxvii. 248.

-, in Tongatabu, xxii. 115. Tachin River, Siam, xxvi. 75, 76.

TACHUCAMANO, North-West Mexico, xxx. 9.

Tacna, South Peru, xxi. 100.

TACTICS of the Greeks at Marathon, xxvii. 30.

TADEMEKKAS, Central Africa, XXX. 125.

TADMOR.

Tadmor, xxx. 207, 208. Taesha Valley, Chusan, xxiii. 244.

Taft, Yezd, Persia, xxv. 21.

Taganika, Lake (Tanganyika), xxvi. 122. See also Nhanja, in same article.

Taganrog, Azov, xxvii. 141, 145.

Taghona, Mountains, Tripoli, xxiv. 276.

TAGOUNG, Ancient Burmese city, xxvii. 70.

Tahwashan, Yangtsekiang, xxx. 83.

Tai, Shan, or Laos race, xxvi. 73; xxvii. 87.

Taiba, Syrian Desert, and remarkable ruins near it, xxx. 207-209.

Taindan, Burma, xxvii. 75.

Taiping, Taipingfu, Yangtsekiang, xxviii. 296; xxx. 80, 96.

-- Rebels, xxviii. 295, and see Oli-PHANT, XXX. 75—BLACKNEY, XXX. 93, passim.

TAITA, Dayda, or Bura Mountains, inland from Mombasa, xxix. 3; xxx. 128, 130.

Taitzeke, Yangtsekiang, xxx. 84.

TAJURRAH, East Africa, in Gulf of Aden, xxv. 138, 140.

Takang River, Sea of Okhotsk, xxviii. 402.

TAKHLAKHAR, lowest explored point on Mapcha River, Tibet, xxiii. 30, 40,

TAKHT-E-JEMSHID, Hill near Yezd, Persia, xxv. 20.

Takiang, Ta Keang, or Yangtsekiang. See Lockhart, xxviii. 289 seqq.—Oliphant, xxx. 75 seqq.—Blackney, xxx. 93 seqq.

Takitimo Mountains, Otago, xxviii. 312,

320. TAKMAK ATY, island in Aral Sea, xxiii.

TAKOOSHAN, "Great Orphan Hill," Yang-

tsekiang, xxx. 86.
TAKPA or Nupe District, Niger, xxx.

TALACOLEPITIYA, Ceylon, xxvii. 340.

TALAINS, or Mons, race occupying Pegu, xxvii. 63, 82. Talak, Aracan, xxvii. 75.

Talak-me, Aracan, xxvii. 108, 110.

TALA MUNGONGO on Livingstone's route to Loanda, xxv. 226, 231; xxvii. 353.

TALAWATURA Stream, Ceylon, xxvii.

Talcahuano coal, Chilé, xxv. 172, 175. TALE SAB, Great Lake of Cambodia, xxx. 179, 184, 195.

TANGANYIKA.

Talifu, Yunan, xxvii. 90.

Talismans, East Africa, xxix. 325.

Tallow tree in Chusan, xxiii. 50.

Talponga River, San Salvador, xxviii. 353.

Tal-thel-leh Strait, Arctic America, xxvi. 19.

Talysch, Caspian, vegetation of, xxi. 6. Tama, shout of respect, Fiji, xxvii. 935, 239.

TAMAGASOTE Volcano, San Salvador, xxviii. 357.

Tamari Arabs, xxvi. 61.

Tamarind in East. Africa, xxix. 64.

- tree, gigantic, in Ceylon, xxvii. 338.

- Hills, East Africa, xxix. 107. Tamarındo River, San Salvador, xxviii. 352.

Tamarisk in Arabia taken by Wallin for a pine, xxiv. 162.

Tamarugal, Pampa, South Peru, xxi. 103, 105, 111, 114, 125.

TAMATI River, Southern Africa, xxiv.

Tambara, Zambesi, xxx. 159.

TAMBLEGAM River and Bay, Ceylon, xxvii. 347 seqq.

Tambo de Antado, Darien, xxiii. 194, 195.

TAMERLANE, XXIV. 43.

Tamota, Mount, East Africa, xxviii. 211.

Tamulasco River, San Salvador, xxviii.

Tamunakle River, Lake Ngami, xxii. 165, 169; xxvii. 375.

Tana, Camiña, Southern Peru, xxi.

TANDA River, Amur Land, xxviii. 426,

TANGA, also Island and Bay, East Africa, xxviii. 197-200; xxix. 3, 275, 310, 446.

Tangab Sculptures, Firuzabad, Fars, xxvii. 177.

Tanganna Lake (i. e. Tanganyika) xxiv. 226, 228.

Tanganyenka (i.e. Tanganyika), xxvii.

TANGANYIKA Lake, or Sea of Ujiji; xxix. pp. clxxix. 3, 5, 13, 14, 16, 17, 20, 21, 24, 26, 27, 30, 95, 141, 167, 171, 177, 180, 185, 186, 198, 205-8, 211, 212first view of, 213, 215, 216—total distance to, 217-19—fauna of its shores, 220—slave and ivory trade, 221 history of the knowledge of; meaning of the name; dimensious, and description, 231 seqq., 271, 274, 280,

TANGATA.

284, 289, 305-8, 350, 351, 367, 386, 404, 408, 426, 434, 442, 452; xxx. p. clxi. 135.

See under Burton.

See also Taganika, Tanganna, Tanganyenka, Nyassa, Nhanja.

TANGATA Port, East Africa, xxix. 58.

TANGYEE Hills, Burma, xxvii. 74.

Tanks, ancient, in Ceylon, xxvii. 328

Tanktsé, District of Ladak, Tibet, xxxiii. 14, 16, 22, 24, 46-8.

TANJORE, wealth from irrigation in, xxvii. 346.

Tanus River, Laconia, xxvii. 43. Tanuyacu, Ecuador, xxviii. 338.

Tanzimat (Turkish reforms), xxiv. 74 their weakness and silliness, 220.

Taping River, Burma, xxvii. 69.

Tapir seen by Markham in Peru, xxv. 153.

TAPPA cloth manufacture, Tonga Island, xxii. 102.

Taou Sect, in Chusan, xxiii. 260.

TARAHUMANE Indians, North-Western Mexico, xxx. 24, 25.

Tarai, or Moist Tract below Himalyas, xxi. 60.

Tarajit, Air, in Sahra, xxi. 133.

TARAPACA, South Peru; Observations on the Province of, by Don M. B. DE LA FUENTE, communicated by W. Bollaert, xxvi. 229.

- Province and town of, xxi. 102, 104 seqq.

TARAPOTO, Peru, arborescent cotton in, xxx. 73.

TAREI NUR, Russo - Mongol frontier, xxviii. 414.

TARHONAH, south of Tripoli, xxi. 131. TARINGNURAH Downs, Otago, xxviii. 303.

TARKANRA, Putrid Sea (Crimea), xxvii. 134.

TAROM River, Sea of Ohkotsk, xxviii.

TAROUP MAU, "Chinese Point," Irawadi River, xxvii. 82.

Tarson - Migarson (" Horse-way, no Saddle-way"), Gorge in Tibet, xxiii.

TARTARY Coast, Surveys of, xxvi. p. cxcviii.; vol. xxvii. p. cxxvi.; vol. xxviii. p. exc.; vol. xxx. p. exxxvii.

TARUKMUSKA, Amur Land, xxviii.

Tasajera, North-Western Mexico, xxx.

Tasawai River, Cambodia, xxx. 178. Tashikang, site of a Monastery in Gar,

TCHUBAR.

in Tibet, xxiii. 12, 13, 16, 24, 25, 27,

Tashichuzong, vulg. Tassisudon (q. v.) in Bhotan, xxiii. 2.

Tashi Lhundo (vulg. Teshoo Lombo), in Bhotan, xxiii. 3.

Tashul River, Dobrudsha, xxvi. 205.

Tasmania, xxix. p. ccxviii.—dialects kindred to that of, xxi. 240.

Tassisudon, capital of Bhootan, properly Tashichuzong, and spelt bKrashismchhosdzong, xxiii. 2.

TATA JACHURA, Ascent of Mountain of,

in South Peru, xxi. 121.

TATOOING, Practice of; Among Laos people, xxvi. 74 — among Khyen women of Aracan, xxvii. 76—among women of Vancouver Island, 307—in East Africa, xxix. 84, 160, 196, 222, 254, 297, 302, 316—in New Guinea, xxx. 174.

TATOONG, Yangtsekiang, xxx. 83. TATURAU, Otago, xxviii. 308.

TAULEBE, and Lake, Honduras, xxx. 58 seqq.

Taurus, xxi. 3.

Tausa, Fiji, xxvii. 241.

TAVERNIER'S estimate of the Koh-i-Nur, xxiii. 74.

TAVOY Colony, in Shan States, xxi. 96.

TAWAN, south of Hebron, Palestine, xxvi. 59.

TAWARICK, Tuwarick, Tuaryg tribes, Berbers of the Sahra, xxi. 134, 140-2, 145, 149, 151—account of, by Barth, 166, and xxx. 116; xxiv. 283; xxx. 121, 124—white Tawarick, xxi. 135, 168. See Berbers.

TAWAK, Oasis of Northern Central Africa, xxi. 135, 136; xxx. 113, 114,

118, 125, 259.

Taximaroa, Eastern Mexico, xxx. 54. TAY, Land and Mountains (Aja and Selma), in Northern Central Arabia, xxiv. 142, 151, 153, 158, 167, 170, 173, 175, 204.

tribe of Arabs, in Northern Central Arabia, ib., 165, 166, 191-6, 205.

See under Benoo.

TAYLOR, Richard, Obit. Notice, xxix. p. cxxxv..

Mugayer in Babylonia, xxvi. 151.

- Island, Arctic Sea, xxii. 87, 92. TCHIHATCHEF; his observations on Caspian Steppes, xxi. 1, 9—his Asie Mineure, xxiii. p. ciii.

TCHUBAR TARAUZ on Sea of Aral, xxiii.

TCHUTCHKA-BASS.

TCHUTCHKA-BASS, island in Sea of Aral, ib. 98.

TCHUKTCHI people, North-Eastern Siberia, xxii. 125.

Tea, culture of, in Kumaon Himalya, xxi. 78.

- plant in Chusan, xxiii. 246, 252. — trade in, at Kiakhta and Maemae-chin, xxiv. 307, 308—tables of the exports, 309, 311.

-, brick, xxiv. 309, 310—Russian,

why superior, ib.

—, pickled, in Burma, xxvii. 69.

grown in States between Ava and China, xxvii. 93, 99—imported thence into China, ib.

TEAK trees; not found in Borneo, xxiii. 75—in North Burma, xxvii. 70—in

Pegu, 79. Teanau Lakes, Otago, xxviii. 321.

Tearus River, Rumilia, its sources, and description by Herodotus, xxiv. 44,

Tebak Cape, Amur Mouth, xxviii. 389. TEBOOK, North-Western Arabia, xxiv. 153, 157, 158, 192, 197, 203, 204.

Tebu, or Teda race and country, Sahra, xxx. 113, 114, 121.

TECAPA, Volcano, San Salvador, xxviii.

351 seqq. Teda or Tebu. See *Tebu*.

Teentsin, near Peking, xxviii. 295.

TEETH, filing and extracting, &c. See Tooth.

Tegea, Peloponnesus, xxvii. 10, 35, 36, 46, 50.

Tegery, Sahra, xxiv. 281.

Tehran, Route from, by Savé and Kum. See Abbott, xxv. 1.
Tehrud, Kerman, Persia, xxv. 39, 41.

Тегана tribe of Bedawin, xxiv. 117. Тегма, Northern Central Arabia, xxiv. 136, 149, 151, 153, 160, 162, 165, 167, 190, 197, 204.

TEIRAN, Tirahn, Island and Strait, Gulf of Akaba, xxiii. 160; xxiv. 126.

Teiras Flat, Southern Africa, xxii. 137.

Tejutla River, San Salvador, xxviii. 352.

Teke River (Artiscus), Rumilia, xxiv.

TERKURT, extinct volcano, Tripoli, xxi.

TEKMAO River, Cambodia, xxx. 183. Tel Debbin, Galilee, xxiv. 24, 25.

-- Ede, Mound in, Babylonia, xxvi.

144, 146. --- EL KADHY, near Banias, Syria, xxiv. 25.

TEL.

Tel el Khalediyeh, Bashan, xxviii. 242.

-- EL MUTESELLIM, Esdraelon, xxiv. 9.

--- EN-NEMAREH, east of Bashan, xxviii. 239.

-- ES-SUMEID, Lejah of Bashan, ib. 260.

-- Hazur, near Lake Tiberias, Palestine, xxiv. 6.

— Hum, Galilee, xxiv. 23.

— Kaimon (Camon), Esdraelon, xxiv.

—— Mania, near Damascus, xxvi. 45. ---- Mindow, near Orontes River, xxvi.

--- 'Ozda, east of Bashan, xxviii. 233, 239.

- um el Jerid, east of Bashan, ib. 238.

Tellul, Hills east of Damascus, xxvi.

Telegraph, Atlantic, xxvii. p. cxxxviii.;

vol. xxx. p. clii. Temasanın Valley, northern edge of Sahra, xxx. 113.

TEMPERATURE within Frigid Zone, distribution of, xxii. 121.

- at Alexandria, Table of,

from Mr. Thurburn's Observations, xxii. 131.

of Milo, xxii. 223.
of Western Tibet, xxiii.

58-64—of high elevations in ditto, 61 —mean of Central Ladak, 63. ---- of Rio Negro, xxiii. 215.

— of Red Sea, xxiv. 230. — of Sea on Voyage to

Algoa Bay, and currents affecting it, xxv. 258-60.

- of Dr. Kane's winteringplace, xxvi. 5.

of Sea south of Cape Farewell disproves Arctic current from Greenland to Newfoundland, xxvi. 42.

-, High Winter, of Tierra del Fuego, xxvii. 216.

——, sudden rises of, due to condensation of vapour, xxvii. 219.

— of the Arve River, xxvii. 226.

-, changes of, in African Desert, xxx. 114. - of soil, Observations on,

xxx. 276.

Temples in Syria, Remains of, xxvi. 47, and see Robinson passim.

- in Borneo, of Hindu character, xxiii. 82.

TEMPLES.

Temples in Manchuria, xxviii. 411.

Temrink Bay, Sea of Azov, xxvii. 145,

Tena, Ecuador, xxviii. 341.

Teneriffe, Peak of, Professor Piazzi Smyth on, xxvii. p. cxxxii.

Tenga, Karagwa, East African Lake Region, xxix. 283.

Tengab. See Tangab.

Teng-ye-chu, Yunan, xxvii. 70.

Teoge, see *Tioge*.
Tepahuja, North-Western Mexico, xxx.

Tépés (Tapahs), or Ottoman military mounds, xxiv. 40, 83. See also Tumulus.

TERABIN tribe of Bedawin, xxiv. 117, 118.

Teredon or *Dividatis*, Chaldea, xxvii. 185, 188.

Terez Nahid, near Kum, Persia, xxv. 7. Terraces, Natural, in South Otago, xxviii. 308.

Terradas, Canoes of Marshy Babylonia, xxvi. 137, 139.
TERRAH, Babylonia, xxvi. 144.
TERTIARY fossils in Tibet, xxi. 67.

Testaji, Bulgaria, xxiv. 79.

TESTIMONIAL to memory of Lieutenant Bellot, xxvi. p. viii.

Testimonials awarded by the Society. See Premiums.

Teté, Zambesi, xxvi. 110-13, 122, 127; xxvii. 357, 367, 372, 374, 376, 378-384, 387; xxx. 150, 151, 154, 156, 158-61.

Teudelti, Darfur, xxiii. 120. TEWAI Point, Otago, xxviii. 326.

Tewaiwais Bay, New Zealand, xxviii.

Texas, Surveys in, xxvi. p. ccxxi.

--, Louisiana and Florida, Winter Climate of, xxvii. 207.

Teyaser, north-east of Nablus, Palestine, xxiv. 19.

Tezing, east of Shiraz, xxvii. 152.

Thaledain, Pegu, xxvii. 75.

THAMES River, Survey of, xxvii. p. cxx.; vol. xxviii. p. cxliii.

THAMIEL (Thammed?), Fort in Desert of Irak, xxx. 205.

THANDOWY (Sandoway), Aracan, xxiv.

THATUNG, old city near Martaban, xxvii.

-, in Shan States, ib. THEATRE, Ancient, in Milo, xxii. 210. Theebo, Shan States, xxvii. 59, 98. THEIMEH, old city in Bashan, xxviii. 235.

THOMSON.

Theinnee, Shan States, xxvii. 59, 98. Thermissus River, Ætolia, xxvii. 1. THERMOMETER, Mountain, xxi. 37, 38.

boiling-point of, xxiv. 336, 340. See Sykes.

Thermometric Observations in Arctic Regions, arranged according to latitude, xxii. 126.

- on voyage to Algoa Bay, by Dr. P. C. Suther-LAND, F.R.G.S., XXV. 258.

Thermopylæ, Operations of Brennus

against, xxvii. 12 seqq. Thermus, Ætolia, xxvii. 1 seqq.

THIAN SHAN, OF Celestial Mountains, Chinese Turkestan, xxiii. 5; vol. xxvii. p. cliii.; vol. xxviii. p. clxiv.; vol. xxx. p. clxxx.

THICKWOOD Hills, British North America, xxx. 278, 309.

Thogji Chemno Lake, Tibet, xxiii. 38,

THLEWYCHO River, Arctic America, xxvii. 322.

THOMAS, Lieutenant; his Surveys of the Firth of Forth, &c., xxi. p. lxv.; vol. xxiv. p. xc.; vol. xxvi. p. cxciv.; vol. xxvii. p. cxxi.; vol. xxviii. p. cxlv.; vol. xxix. p. cxlii.; vol. xxx. p.

THOMASON, James, Lieutenant-Governor of North-Western Provinces of India, xxi. 59.

Thompson River, Columbia, xxvii. 311.

— Sound, Otago, xxviii. 318. THOMSON, Dr. ARTHUR SAUNDERS, 58th Regiment; Observations on the STA-TURE, BODILY WEIGHT, &c., of the NEW Zealand Race of Men, xxxiii. 87 stature as compared with that of soldiers of the 58th Regiment, 87 bodily weight as compared with that of soldiers of the 58th Regiment, 88 —fat in the legs and thighs, 90 magnitude of chest as compared with that of soldiers of the 58th Regiment, 90—physical strength as compared with that of soldiers of the 58th Regiment, 92 — superiority of the English; concluding remarks and deductions, 92, 93.

-, J. Turnbull; Extracts from Journal during a reconnoissance survey of the Southern Districts of Ota-Go, New Zealand, xxviii. 298—from Dunedin to Invercargill; New River, 299—tropical character of scenery; singing birds; cattle-station, 300the stock-whip; the parson-bird, 301 —Oreti settlement, Spar Bush, 302—

THOMSON.

cel fishing; position of the chief town of this region (Invercargill); flax-gum, 303—great value of the flax and fern to the natives; descend the New River to Campbelltown; Bluff Harbour; Invereargill, 304—camp in the bush; a Maori oven; diminution of forest owing to the fires, 305—mounds the monuments of former trees, 306—collections of white pebbles and their origin; the Makerewa River and Hokanui Hills, 307—the Matama River, 310—Moa bones and recent existence; the Dome Mountain, 311—
"Spaniards" and "Wild Irishmen;" the Cupola; the Aparima River, 312 -Jacob River settlement, 313—Codfish Island near Stewart (or South) Island; decrease of natives in the southern islands, 314—whaling in former days; state of Jacob River compared to the Shetland Islands in former times, 315—a whale - hunt, 316—the mutton-bird, 317—the Maoris; green stone (qu. Jade?) 318 —the apteryx; wrecked Indiaman and horrid story; resume journey, 319—Ormut River; wild tribes of the mountains; Twinlaw, 320—the Waiau River; caves; Moa bones and Maori ovens; possibility of present existence of Moa, 321—Centre Hill; wood-hens, 322—the upper Malaura, 323—difficulties of the country; the country fired, 325—return to Jacob's River, 326—Campbell Town; Toitoes Harbour; ascend the Mataura, 327contrasts of survey service in India and in New Zealand; the last preferable, 328—return to Dunedin; the Clutha River; meteorological observations, 329—comparative vocabulary of Malay and Maori, 330-altitudes, 331—estimated area of lands surveyed, 334—population.

Thomson, Dr. T.; his explorations in Tibet, xxii. p. cix.—reaches Karakorum Pass, xxiii. 8, 10, 25, 42, 43, 53, 55, 56, 58, 59—merit of his re-

searches, xxviii. p. clxxxvii.

—, Rev. Mr., of American Mission at Beirut, xxiv. 1, 24, 28, 34. Thornax, Laconia, temple of Apollo at, xxvii. 45.

Thoung-zé, Shan States, xxvii. 59.

THOUSAND ISLANDS Lake, British North America, xxii. 177; xxx, 269.

Thucydides cited, xxvii. 22.

THUMBA LA HERE, or There, East

TICKELL.

African Lake route, xxviii. 223; xxix.

THUNDER and Lightning, almost un-

known in Ladak, xxiii. 67.

Thurburn, Hugh; Notice of a Meteorological Journal kept at ALEXANDRIA by; communicated by Hon. Captain

Murray, xxii. 128. Thurman, Dr., Letter from, on Northern Antiquities and changes of surface in Scandinavia, referred to, xxi.

p. lxxiii.

Thwart Channel current, xxiii. 219. Thyreatis into Laconia, Highway from, xxvii. 41.

Tiaguanaco, ancient pre-Inca ruins in Bolivia, xxvi. 214.

TIBERIAS, and Sea of Tiberias, xxiii. 165, 169; xxviii. 260, 261.
TIBESTI Mountains, Tebu, Northern

Central Africa, xxx. 113.
Tiber, on the Physical Geography of the part of, adjoining Kumaon and Garhwal, see R. Strachey, xxi. 57.
—, Elevated Plain of, ib. 61—its

geology, 67—forming a sea-bed, 68 winds, 73—vegetation, 77—zoology,

-, Physical Geography of Western. By Captain Henry Strachey, xxiii.

work in regard to, xxii. p. cvi.—Huc and Gabet's Work on, xxv. p. cxiii. —mountain systems of, xxviii. p. clxxxiv.

TIBETAN Names of adjoining countries, xxiii. 1.

TIBNEH (Timnath), Palestine, xxiv. 11. Tibnin Castle, Syria, Crusaders' Toron, xxiv. 4, 23.

Tick, Annoying, in Aracan Jungles,

xxiv. 113.

Tickell, Capt. S. R.; Extract of a Journal up the Koladyn River, Aracan, xxiv. 86—divisions and administration of Aracan, 86—Akyab; the Koladyn River, 88—alligators, 89—fishing monkeys, 90—Bramin colony, 92—Mugh Musalmans, ib. lying-in-house, 93—Kumooi tribe, 96 Temple of Mahamunee, 97—history of it, 98—the Mroe tribe, 99—horned fishing-owl, 100—Areng Khyangs, or wild Hill men, ib.—tiger-slaying Mroe, 102—the Mee River, 103— Mroe villages, ib.—Mughs of the nalas or creeks, ib.—Blue Mountains, 106 -Arengs; Tooan, a savage chief, makes a treaty, 107-bills and easques

TIDAL.

of the great hornbill; vast forest,. and curious passage in river, 108 bamboo engineering, ib.—wild Koomoois, 109—Shendoos; their attacks on villages, 109—return from Talakme, 110—Gayal bull, ib.—his fate; Koomooi festival, decorations, music and dance, 111—costly banquet, 112 -visit from Koomoois and Shendoos, ib.—annoying tick, 113—return to Akyab, 114—glossary, ib.

Tidal Geology, xxi. p. xcii.

Tides, investigation of, xxii. p. lxxxvi.

– in Red Sea, xxiv. 228.

— in Murray River, irregularity of, xxv. 178.

- in Darien Harbour, xxvi. 181. - of Atlantic and Pacific at Isthmus of Darien, xxvii. 198.

—, New Guinea, xxviii. 271.

on Zanzibar Coast, xxix. 32.

—— in Lakes, xxvi. 214; xxix. 238. —, Barometric, observed at Hanlé in

Ladak, xxiii. 64. Tidesht, Firuzabad, Fars, xxvii. 175.

TIDMAN, Rev. Dr.; Letter from Livingstone communicated by, xxi. 18—acknowledges Medal on behalf of Livingstone, xxv. p. lxxvii.

TIERRA del Fuego, High Winter Tem-

perature of, xxvii. 216.

Tiflis, Observations at, xxi. 5—climate,

ib. 8, 11, 12.

Tigers; on shores of the Aral, xxiii. 95, 97—in Shan country, xxvii. 93 on the Amur, xxviii. 420, 441.

TIGRE River, North-Western Mexico, xxx. 19.

Tigris River, i.e. Pasitigris, or Karun, xxvii. 126, 127.

TIHAMA, Arabia, xxiv. 174.

River, Guatemala, TILAPA XXVIII. 361.

Till of Caithness (a local epithet for accumulations of inud, pebbles, &c., found in seas of the glacial period), xxvii. 231.

TILOA, Lower Amur, xxviii. 389.

TILOMONTE, Atacama, xxv. 165.

TIMBER, forests of fine, in West Australia, xxii. 56.

— trees of Borneo, xxiii. 75.

292.

— at Zanzibar, xxix. 447.

— on Lower Danube, xxx. 171.

—— Creek, North Australia, xxviii. 28.

TIMBONA, New Guinea, xxviii. 268.

TOMAS.

Timbuktu language, xxi. 144 — some words of, 213.

7, xxiv. 283; xxx. 116, 120, 124, 125, 259. See *Routes*.

TIMMANI Tribe, Central Africa, XXX.

TIMPLAN City (probably fabulous), of Ferd. Mendez Pinto, xxvii. 104.

Tincas, Walfisch Bay, xxii. 145. TINDAL, Comm. C., R.N., Obit. Notice,

xxx. p. exxvi. Tinghae, Chusan, xxiii. 243, 254.

Tingri in Nari, Tibet, xxiii. 4, 16.

TIN-TELLUST, or Air, in the Sahra, xxi. 134, 136-138—route from, to Agadez, 161.

Tiogé, Teoughe, Teoge River, Lake Ngami, xxi. 21; xxii. 169—ascent of, by C. Anderssen, xxv. pp. cxvii. 79, 87-92, 95; xxvii. 375.
Tipura, East Bengal, xxvii. 65.

TIRAHN Strait in Gulf of Akaba. See Teiran, xxiii. 164.

Tirb-rearche, Palestine, xxvi. 57.

Tirikeza, or Afternoon March, in East Africa, xxix. 118, 146, 147, 419.

Tirnova, Bulgaria, xxiv. 51, 60, 68. TIRTHAPURI, Holy Area of Hindu Pilgrimage in Tibet, xxiii. 13.

Tisé, Tibetan name of Kailas Peak in Tibet, xxiii. 25, 48; and see Kailas.

TISHIT, Western Sahra, xxx. 116.

TITICACA, Lake of, Peru; details, xxvi.

TITIGUAPA River, San Salvador, xxviii. 352.

TIYAHA, Teyaha, Bedawins, xxv. 270,

Tobacco; a life's expenditure in, xxi. 106—in Tripoli, xxii. 132—prohibited by Wahabis, xxiv. 183—produce near Jehrum, South Persia, xxvii. 164—in East Africa, xxix. 404—at Mazatlan, xxx. 5.

Toconao, site of meteoric iron in Atacama, xxi. 128, 130.

Toconado, apparently the same as Atacama, xxv. 166.

Tocantin River, Amazons feeder, xxvi. 216.

Toddy, largely made at Zanzibar, xxiii. 108; xxix. 367.

Tofiño, Spanish Surveyor, xxiii. 178.

Tofua, one of the Friendly Islands, xxii. 97.

TOGRAJEH and Ser Gheli Lead Mine, Kerman, Persia, xxv. 29.

Toltoes Harbour, Otago, xxviii. 327. Tolti, Balti, xxiii. 14, 16, 27.

Tomas Pan, Bushmanland, xxviii. 162.

TOMATAGURU.

Tomataguru, Otago, xxviii. 323. Tомато in East Africa, xxix. 403.

Tombo Tribe, Negro Land, xxx. 122.

Tombs and Catacombs in Milo, xxii. 212.

Tomi River, Amur Land, xxviii. 432. Tomoboraken Creek, Otago, xxviii. 299.

Tomogalak, Otago, xxviii. 310.

TONNA, Lewis H. J., Obit. Notice, xxvii. p. exiv.

Tongatabu and Tonga, see Erskine, xxi. 227 seqq.; and Brierly, xxii.

Tongoni, East Africa, xxviii. 201.

Tongwe, near Pangani River, East Africa, xxviii. 205-208.

— Mwanapiro Hill, East Africa, ib.

Tono River, Tributary of Purus, east of Peruvian Andes, xxv. 151, 152, 155-157.

TOOCHEAOU, Yangtsekiang, xxx. 83. Toodyay, West Australia, xxii. 59; xxvi. 268.

TOOLBRUNAP Peak, West Australia, xxii. 53.

Tooman Tribe, Central Arabia, xxiv.

Toongleang Shan, Yangtsekiang, xxx.

Toonglew, Yangtsekiang, xxx. 84, 97. Toongling, Yangtsekiang, ib. 83.

Toongring Lake, above Hankow, on

Yangtsekiang, ib. 89, 99. Too-oot-awnee River, British North

America, xxii. 183.

TOOTH-CHIPPING, filing, and knocking out; practices among many African tribes, xxii. 170; xxiv. 267, 268; xxviii. 216; xxix. 99, 131, 138, 160, 196, 254, 297—among Australians, xxviii. 151.

Topajos, Amazons feeder, xxvi. 216. Topari, Pollinarua, Ceylon, xxvii. 330, 333.

Topnaar, Toppuer, properly Ounip Tribe of Hottentots in Namaqua Land, xxii. 157, 158; xxv. 103.

Topographical and Statistical Department of the War Office, xxx. pp.

exl. exliv. Tor (Tur), Red Sea, xxiv. 212, 229. Torba, old city in Bashan, xxviii. 235.

Toro River, East Siberia, xxviii. 380. Torola and River, San Salvador, xxviii.

349, 350.

Torres Straits urged as line for steamers to Australia, xxvi. 183—dangers; exaggerated, 184—course for steamers through.

TREE.

Tortoise Shell from Borneo, xxiii. 76. Toscanelli's Influence on Columbus, xxvi. 195.

Tossukatek, an Ice Firth in Greenland, xxiii. 152.

Toultcha, Dobrudsha, xxvii. 220; xxx. 164.

Toungbain, Shan States, xxvii. 59.

Toungdwen, a town of South-East

Burma, xxvii. 77. Toungoo, Burma, xxvii. 62, 81. Toungoop, Araean, xxvii. 75.

Toungthus, a Race in Martaban, xxvii. 84, 92.

Tounobis or Otchombinde, Damara Land, xxii. 142, 133, 154.

Tourlis, Mount (Eva), Laconica, xxvii.

Towara Arabs, xxv. 281, 286.

Trachiniæ, Greece, xxvii. 15.
Trade of Vancouver Island, xxvii. 310,

—, Sandalwood at New Hebrides, xxi. 235.

— proposed between Tongataboo and New Zealand, xxii. 116.

— of Borneo, xxiii. 74, 75 — of Chusan, 262.

—, Russian Caravan, with China. Sec Parkes, xxiv. 306.

- of East Africa. See Burton,

xxix. 421 seqq.

- of Mazatlan, xxx. 5-of Culiacan, 11-Negro Land, 124-of Ghadamis, 259.

TRADE-WINDS, On the Fine Regions of the. By Thomas Hopkins, xxviii.

Traditions of Al Jauf, North Arabia, xxiv. 144 seqq. of Fiji, xxvii. 250.

of Bechuana, xxvii. 364.
of Cambodia, xxx. 194.

TRAILL on the Bhotiyas, referred to,

xxi. 84. Trajan's Wall, Dobrudsha, xxvi. 204.

TRANSPORT from Kiakhta to Moscow, cost of, xxiv. 311.

TRANSVAAL REPUBLIC. See SANDERSON, xxx. 233.

Trautwine, Mr., employed on Kelly's Surveys of the Atrato, xxvi. 174 segg.

Travellers, Hints to, drawn up by a Committee of the Society. Hints, xxiv. 328.

Treachery Bay, North Australia, xxviii. 12.

Tree-ferns, xxi. 16.

TREE POINT, North Australia, xxviii.

TRIALETHI.

Trialethi and Somsethi Ridges, Caucasus, xxi. 2.

Triavasala, Village in Milo, xxii. 221. Triballians, Alexander's action with the, discussed by *Jochmus*, xxiv. 81, 82.

Tribulation, Cape, North-East Australia, xxviii. 6.

Trichonium or Vrachori, and Lake, xxvii. 1, 3, 4.

Trigonometrical Survey of India. See India.

Trincomalee, xxvii. 347.

Tringanu, Malay State, xxvi. 72.

Trinidad, Moxos, Bolivia, xxiv. 261, 264.

——— Mine, Mexico, xxx. 51.

Tripang, or Sea-slug, from Borneo, xxiii. 76.

Tripiti, village in Milo, xxii. 209, 212. Tripoli, xxi. 130—Mountainous country south of, 131—observations near, xxiv. 276; xxx. 255 seqq.

to Ghadamis, Extract from Vice-Consul Dickson's Report of his Journey from, xxii. 131.

Tripolitza, Morea, xxvii. 35.

Tripy River, Sparta, xxvii. 12.

Tristan d'Acunha, xxx. 263.

Trisul Gandaki (Gandak River, India), xxiii. 9.

Trithen, Professor Francis, Obit. Notice, xxv. p. xciii.

Troglodytes of Tripoli, xxi. 131, 132; xxii. 133.

Trona Lakes of Fezzan, xxiv. 276, 279. Trotter, Rear Admiral Henry Dundas, xxvi. 70; xxvii. 386—Obit. Notice, xxx. p. cxxvi.

TRUANDO River, Tributary of Atrato, xxvi. 177, 180, 181—conclusions in its favour as the line for a canal, 182.

Truffles, in Desert of Irak, xxx. 200—at Ghadamis, ib. 258.

Tsad, Lake. See Chad.

Tsagan Nur ("White Lake") Russo-Mongolian Frontier, xxviii. 414.

Tsagan-olu, Russo-Mongolian Frontier, ib. 413.

Tsaka ("The Salt Field") in Ruduk, Tibet, xxiii. 13, 16.

Tsake, Yangtsekiang, xxx. 86.

Tsalen District, Burma, xxvii. 76. Tsang (gTsang), Province of Central

Tsang (gTsang), Province of Centra Tibet, xxxiii. 3.

Tsangspo (rTachok Tsangspo), or Horse River of Tibet, supposed upper stream of the Brahmaputra, xxiii. 7, 9, 35. See Sanpo.

TUDOR.

Tsanling Mountains, Shansi, xxx. 90.

TSAPRANG, Tibet, on Sutlej, xxiii. 13, 33, 43.

Tsatsoo, or Blackwall Island, Chusan, xxxiii. 244.

TSCLALLUM Indians, Vanconver Island, xxvii. 294, 295, 304, 305, 319.

Tsetsé, Tsetzé, Tzetzé, destructive fly of East Africa, xxi. 19, 24; xxii. 139, 164, 165—its bite and effects, 172; xxiv. pp. xcvii. 291, 295, 297,; xxv. 86; xxvi. 87, 95; xxix. 113, 177; xxx. 250.

Tsetwé, vernacular name of Akyab, in Aracan, xxiv. 114.

Tshenbyo-myayen, great king of Pegu, in sixteenth century, xxvii. 62, 102, 104.

Tsing Keangpoo, on Hoang Ho, xxviii. 294.

Tsing-ling Mountains, Central China, ib. 290.

Tsinkong Valley, Chusan, xxiii. 244. Tso or Beribe River, Lake Ngami, xxii.

154, 164. Tsobis River, Walfisch Bay, xxii. 145.

Tso Langak, or Rakas Tal, or Rawan Rhad, Lake of Tibet adjoining Mansarowar. Sea Rakas.

Tso Mapham, or *Manasarowar*, q. v. Tso Moriri Lake, Tibet, xxiii. 28, 36, 39—described, 50, 51, 60, 61.

Tso Rul, Lake in Tibet, xxiii. 47, 48, 61.

Tso Shaldat, Lake in Tibet, ib. 47.

Tso war Lakes, Tibet, xxiii. 51. Tsomus, Vancouver Island, xxvii. 272. 294, 308.

Tsotso, part of valley of the Sutlej in Tibet, xxiii. 9, 16, 22, 24, 30, 31, 35, 39, 44, 50.

Tsungming Island, Yangtsekiang, xxviii. 292; xxx. 77.

292; XXX. 77. Tsung-Yang, Yangtsekiang, ib. 84.

Tsuruchaiton, Russo-Chinese Mart, xxiv. 312.

Tszewei Valley, Chusan, xxiii. 244. Tubas (*Thebez*), Palestine, xxiv. 19.

Tubiri or Tumbiri, alleged Nile Source, xxx. 132. See Tambiri.

Tubriganti River, Darien, xxiii. 180.

Tuchtikan, Armenia, xxi. 3.

Tuckett, Mr., Observations by on southern parts of Middle Island, New Zealand, xxi. 34.

Tucuman River, Chilé, xxvi. 210.

Tudega, Amur, xxviii. 444.

Tudishk, Nain, Persia, xxv. 13. Tudor Port, East Africa, xxviii. 192.

TUGALA.

Tugala, Tugela River, Natal, xxii. 138; xxx. 233.

Tugoutta, Oasis in Sahra, xxii. 135.

Tugur Bay, Sea of Okhotsk, xxviii. 402. Tukorindo Glacier, Amur Land, xxviii. 429.

Tuleil-el-Ful (Gibeah of Saul), xxiv. 17.

Tulluzah (Tirzah), Palestine, xxiv. 19. Tumbatu, Manawamana and Popo, Islands near Zanzibar, xxviii. 188.

Tumbez, Coast of Ecuador, xxvi. 210.

Tumbiri River, Ukambane (alleged, from Mount Kenia), East Africa, xxix. 276; xxx. 130, 132.

Tumbucas, South Central Africa, xxvi. 120.

Tumrah, Galilee, xxiv. 8, 22.

Tumuli; in European Turkey, xxiv. 40, 42, 45—of Darius on the Artiscus. 47, 49, 54, 55, 77 — at Marathon, xxvii. 33.

Tuna, King of Uganda, xxix. 291 seqq. Tunda, East Africa, xxix. 59, 70.

Tung Aou, Plains in Chusan, xxiii.

Tung-keang Stream, Chusan, ib. 247.

Tung-ting-tu Lake, Yangtsekiang, xxviii. 289.

Tungus Race, on the Amur, xxviii. 376 et passim in seqq.—character of, 406; xxi. 131.

Tunis, xxi. 131.

Tupai-amaro, Rebellion of, in South Peru, xxi. 122.

Tura, Unyamwezi, xxix. 139, 153, 158, 159, 164, 178, 195, 277, 278, 279, 407.

Turkish Administration, frequent changes of, xxiv. 70.

-- Reforms. Sec Tanzimat.

— and Persian Frontier Survey, xxvi. p. ccxviii.

Turks; characteristics of the, xxiv. 40, 41, 54—in Rumilia and Bulgaria, 76 —misrule of, 85.

Turkun Pass, Fars, xxvii. 115, 116.

Turmi, Amur, xxviii. 440.

Turna Severin, Danube, xxx. 163.

Turner's Embassy to Tibet, xxi. 65.

Turnour, Hon. George, cited. WARD, XXVII. 328 et seqq.

Turquoise Mines, Ancient, in Kerman, xxv. 63.

TURTLE Mount, British North America, xxx. 273, 275.

TURUNJIEH Canal, Babylonia, xxvi. 142. Tuscan Archipelago, Chart of, xxv. p.

Tuscany, Triangulation of, xxv. p. cix. Tuskless Elephants, xxx. 197.

UFYOMA.

TUVARES, Indian Tribe of North-West Mexico, xxx. 12.

Tuwara Bedawin, xxiv. 119, 131, 132.

TUWARICK. Sec Tawarik.

Tuwat. See Tawak.

Tuwon, Kwora River, xxv. 111.

Twas, Damara Land, xxii 153.

Twee River, South Africa, xxviii. 164.

TWINLAW, Otago, xxviii. 319.

Twins cast out in East Africa, xxix. 90.

Two Brothers, Red Sea, xxiv. 237.

Two Names, List of Places with, by E. Norris, xxiv. 318.

Tyba. See Taibah.

Tyu Mountains, Arabia Petræa, xxiii. 169. See El Tih.

TYLA River, Sea of Okhotsk, xxviii. 402. Typhoons; none in Borneo, xxxiii. 71 at Bonin Islands, xxvi. 235. Sce Cyclonic.

Tyrconnel Island, Baffin's Bay, xxiii. 140.

Tyropæon Valley at Jerusalem, xxiv. 14.

Tzavo River, Kilimanjaro, xxx. 130. Tzo River, Zambesi, xxvii. 375.

U.

Ualero River, South-East Africa, xxx. 144, 145.

UAUPES River, Tributary of Rio Negro, xxiii. 214—described, 215.

UBENA, country south of Unyamwezi, East Africa, xxix. 180, 298, 299, 301-303, 306—dogs of, 395, 424, 442.

UBEYYE, at south of Lake Tanganyika, xxix. 258.

UBUDUK Lake, Russo-Mongolian Frontier, xxviii. 414.

Ubwari, Island in Lake Tanganyika, xxix. 247, 249, 250.

UCAYALI, Tributary of the Amazons. xxvi. 215.

UCHUR River, or Hotan, Manchuria, xxviii. 388, 405.

Up River and Mountains, Manchuria, ib. 388, 403.

UDHRUH, Site of Ancient Remains, North Arabia, xxiv. 127, 128, 157.

Udinsk, Siberia, xxviii. 379.

Udski Ostrog, Sea of Okhotsk, xxviii. 401, 403.

Ufipa, on south - east of Lake Tanganyika, xxix. 180, 229, 256, 257, 258, 305.

Uflakiini, Balkan, xxiv. 55. Ufyoma, Unyamwezi, xxix. 169.

UGAGA.

Ugaga, Lake Region, East Africa, xxix. 194, 208.

Ugalde's Exploring Expedition, east of Andes, xxv. 156.

Uganda, Kingdom on Lake Nyanza, xxix. 18, 27, 171, 180, 205, 219, 273, 279 seqq., 287, 290 seqq., 384.

Uganza, Unyamwezi, xxix. 192.

UGINA, Gold and Copper Mines, South Peru, xxi. 115.

Ugogi, Station on Lake Route, East Africa, xxviii. 221; xxix. 25, 101, 107, 120, 123, 129, 139, 148, 301, 441, 451.

- to Zungomero, Route, ib. 453. Ugogo, Province on Lake Route, East Africa, xxviii. 222; xxix. 16, 25, 27, 40, 56, 101, 107, 121, 133, 136, 137, 139 seqq., 167, 175, 238, 267, 277, 279, 303, 306, 315, 323, 324—circumcision of both sexes in, 350—cattle of, 391, 397, 398, 417—elephants of, 441.

Uhha, District on Western Shore of Lake Tanganyika, xxix. 27, 180, 205, 218, 221, 229, 231, 278, 288—cattle of, 291.

UIMBA, near Mount Kenia, East Africa, xxx. 131.

Umbu (*Ukimbu*? q. v.), Lake Route, East Africa, xxiv. 268. Ußp, Orange River, xxviii. 178.

Ujiji, on Lake Tanganyika, xxiv. 268; JIJI, on Lake Tanganyika, xxiv. 268; xxviii. 221; xxix. 14, 16, 17, 20, 21, 25-27, 29, 40, 78, 117, 125, 144, 171, 173, 182, 185, 191, 205—climate of, 207; 208, 212, 213—Kawele, the town of, 215, 216—really a province, 217—bazar, 218—ivory, 220, 242—slave trade, 221, 351, 356—people (Wajiji), 221—bark cloth, 222—Sultan Rusimba, 224: 226—rice, 227. tan Rusimba, 224; 226—rice, 227; 228, 230, 231—"Sea of Ujiji," 234; 235, 244-247, 249, 251, 253-257, 272, 278, 312, 323, 353, 358, 384, 388—cattle of, 391, 398, 400, 403—cotton of, 404—tobaco of, 405, 418, 425-427, 430, 434—to Unyamyembe, Route, 452.

Ukamba, Lake Region, East Africa, xxix. 265.

UKAMBANI, Ukumbani, East Africa. iron of, xxiii. 117; xxviii. 194; xxix. 3; xxx. 130.

UKAMI District, East Africa, xxix. 45,

Ukaranga, Lake Region, East Africa, *ib.* 205, 208, 212, 215, 218, 230, 253,

UKEREWE Lake, or Nyanza (q. v.), xxix.

UNJUGHA.

3, 20, 26, 164, 232-234, 259, 260, 270,

272, 274, 276. UKEREWE, kingdom of, xxix. 270, 275. Ukimbu, Lake Route, East Africa, xxix. 165, 299, 300.

Ukona, Unyamwezi, xxix. 179.

Ukose River, East Africa, xxix. 70.

Ukumbi, Lake Region, East Africa, ib.

UKUNI, Lake Region, East Africa, ib. 267, 281.

Ulai River, of Daniel, xxvii. 121.

Ulanga River, Amur Land, xxviii. 431. Ulbin River, Amur Land, ib. 401.

Ulbinsk Bay, Sea of Okhotsk, ib.

ULIKAMPURI, Lake Region, East Africa, xxix. 264, 281.

Ulus, Samodon, Amur, xxviii. 381.

ULUSU, Manchuria, ib. 409.

Uma, Orange River, xxviii. 171.

Umak Desert, Damara Land, xxii. 153.

Umanda, Lake Region, East Africa, XXIX. 261, 265, 267, 268, 403, 441. Umasai, East Africa, XXIX. 284, 443. Umbi, Fiji, XXVII. 255.

UM-EL-FAHM, Palestine, xxiv. 9.

Um-el-Jemal, old city of Moab, xxviii. 246 seq.

-, the Little, ib. 252.

Um-el-Kotein, Moab, ib. Um-er-Ruman, Bashan, ib. 254. Um-es-Semak, Moab, ib. 250.

Uм-еs-Seneneh, Moab, $ib.\ 252.$

Umlekan River, Amur Land, xxviii.

'Umran Tribe of Arabs, xxiv. 119-121. 129, 130.

Unangwera, East Africa, xxiv. 266,

Underground Lake Outlets, xxx. 62.

Unguesi River, Zambesi, xxvii. 364. Unguwwe, or Uoungwe, River, Lake Region, East Africa, xxix. 212, 213.

Unhealthiness of African Littorals not all dependent upon Heat and Moisture, xxiii. 114, 115.

Unitarians, a title assumed by the Wahabis, xxiv. 147.

United Mexican Company, xxx. 51. - States; Geographical Work Reviewed, xxi. p. lxxxix.; vol. xxii. pp. exv. seqq.; vol. xxiii. p. exiv.; vol. xxiv. p. c.; vol. xxv. p. exxv.; vol. xxvi. p. ccxx.; vol. xxvii. p. clxxxii.; vol. xxix. p. eev.; vol. xxx. p. eli. And see Coast Surveys.

University, Tibetan, xxiii. 4.

Unjugha, or Peace River, British North America, xxii. 184.

UNSANG.

Unsang Peninsula, Borneo, elephant tusks from, xxiii. 75.

Unuber, Orange River, xxviii. 171.

UNYAMBEWA, Lake Region, East Africa,

xxix. 264, 281.

Unyamwezi, Tract of Lake Region, East Afriea, xxviii. 224 ; xxix. 14-17, 28-30—fever, 40, 58, 63—stinging ants; 72, 86, 101, 103, 105, 113 musk rats, 114—water-melons, 117; 128, 143—lions, 144—ostriches, *ib*. 145; 147, 150, 155, 157—western frontier of, 159; 161, 165-205—people 326, 342, 344, 353—slaves, 356-358; 366, 381—pipes, 385—diseases, 387 geese, 395—dogs, *ib.*—eereals, 398 earth-nuts, 400, 402—arrowroot, 403 —chilies, *ib.*—eotton, 404—tobaeco, 405, 406, 413, 417, 426, 428, 432 ivory, 441.

-, Lake (Tanganyika), xxix.

3.

Unyangwira, Lake Region, East Africa, xxix. 299.

Unyanyembe, Central District of Unyamwezi, xxviii. 221; xxix. 16, 18, 25 —sugar-eane, 75, 78—egg-plant, 125, 132, 133—lions, 144, 147, 169, 178-182, 184, 185, 187, 188, 190, 218, 228, 259, 262, 263, 275, 279, 280, 298, 299, 301, 304—asses, 392, 397—Manioe, 401, 407, 408, 429, 433, 442.

Unyoro, Kingdom near Lake Nyanza, xxix. 18, 27, 180, 205, 271, 272, 279

seqq., 283, 284, 290, 297.

Upernivik, Upernaivik, Greenland, xxiii. 137, 152; xxvi. 1, 16, 17; xxxviii.

UPHEAVAL of Coast in South Peru, xxi.

UPSTART, Cape, North-East Australia, xxviii. 5.

Ur of the Chaldees (Mugheir); onee on the sea, xxvii. 185, 188.

UR River, Amur Land, xxviii. 430.

URAL Mountains, Russian Expedition to, xxi. p. lxxv.

-, geography of, xxvii. p. elii.

Uranga River, East Africa, xxix. 306, 307.

URARI (or Wourali) Poison, xxx. 196.

Urcos Lake, Peru, xxvi. 213.

Urcullu, Don José de, Obit. Notice, xxvi. p. clxxxvi.

Urcusique, Ecuador, xxviii. 339. Uri River, Honduras, xxx. 62.

USINGO.

Urima, Lake Region, East Africa, xxix.

URIQUE, North-West Mexico, xxx. 20, 22, 23.

Urkan River, Amur, xxviii. 426.

Uropua, country of Muato ya Nvo, Central Africa, xxix. 255.

Urori, Lake Region, East Africa, xxix. 25, 180, 298, 299-302, 306, 357, 424, 442.

Ursine Seals, enormous numbers taken, xxii. 120.

Urtas, Palestine, xxvi. 58. Uru, Kilimanjaro, xxx. 129.

Urukh, ancient Chaldean King, xxvi. 147.

URULUNGUI River, Russo - Mongolian

Frontier, xxviii. 414. Urundi, Kingdom of, Lake Tanganyika, xxix. 20, 30, 205, 207, 208, 218, 220, 221, 223, 229, 231, 235, 248, 251, 253, 254, 278—ivory, 441.

Urusi River, Amur, xxviii. 426, 429. Uruwwa, a kingdom forming the extreme western terminus of trade from Zanzibar, beyond Lake Tanganyika, xxix. 26, 30, 180, 246, 255, 257, 378, 427.

Us (dvUs), Province of Tibet round

Lhasa, xxiii. 3.

USAGARA, Mountainous District on Lake Route, East Africa, xxix. 16, 25, 28, 29, 37, 45, 58, 71, 74, 78, 83, 96, 98, 101 seqq., 120, 122, 160, 174, 175, 198, 283, 300, 302, 315, 384, 391, 397– tobaceo of, 405, 417, 426, 427.

Usagozi, Unyamwezi, xxix. 126, 168,

169, 191.

0

Usambiro, Lake Region, East Africa, ib. 281.

Usanga, Lake Region, East Africa, ib. 145, 180, 195, 299, 300, 306. Usdum, and Cave of, Dead Sea, xxvi.

60, 64.

Usekhe, Lake Route, East Africa, xxix. 153, 154, 165.

Usenda, or Lucenda, capital of Kazembe, Central Africa, xxix. 255, 258, 305, 388. See Cazembe, Kazembe.

Usenga, Lake Region, East Africa, ib. 145, 180, 195, 299, 300.

Usenge, Lake Region, East Africa, ib. 186, 192, 193, 194. Ushalgin River, Amur Land xxviii,

400.

Ushangaya, East Africa, xxix. 310.

Usinsha, Lake Region, East Africa, ib.

Usingo, Lake Region, East Africa, ib. 288,

USMAGAMA.

Usmagama, Sibaya, South Peru, xxi.

Usmao, Lake Region, East Africa, xxix.

Usoga, Lake Nyanza Region, xxix. 297. Usonga, Lake Region, East Africa, ib. 281, 384.

Usonge, Lake Region, East Africa, ib.

Ust Strelka, Amur, xxviii. 378, 434, 442.

- Thelotchini, Amur, *ib.* 393, 425.

- Yurt, or Table Land west of the Aral Sea, xxiii. 98.

– Zeysk, Amur, xxviii. 434, 444.

Usui, Lake Region, East Africa, xxix.

165, 278, 280-283, 295, 401.

Usukuma, name applied to districts north of Unyamwezi, Lake Region, East Africa, ib. 155, 169, 181, 198 described, 259 seqq., 298, 360, 398—tobacco, 405—ivory, 441.

Usulutan Volcano, San Salvador, xxviii.

357.

Usuma-na-masai, Mountain near Kili-

manjaro, xxx. 129.

Usumnara, Usambara, Kingdom in East Africa, Krapf's visit to, xxiii. 118— Burton and Speke's, xxviii. 205 seqq., 214; xxix. 3, 12, 13, 19, 48, 219, 274, 284, 312—ordeal, 347, 355, 368—dogs eaten, 395.

Usumbwa, Unyamwezi, xxix. 169.

Usuri River, Amur, xxviii. 386, 394, 395, 410, 420, 423, 438, 440, 441.

Utakama, Southern Unyamwezi, xxix. 169, 298.

UTAYBAH Bedawins, xxv. 129—attack the Pilgrim caravan, 131.

Uthiri, Lake Nyanza, xxix. 275.

Uthongwé, Lake Tanganyika, xxix. 214.

Utofu River, East Africa, xxviii. 198. Utondowe, or Atondo, Zanzibar Coast,

xxix. 45.

U-Tsang, the two Central Provinces of Tibet, xxiii. 3, 6, 7, 10, 11, 16, 35,

UTUMBARA, Lake Region, East Africa, xxix. 169, 229, 257, 261, 281, 384.

UTUMBUCA, South-East Africa, xxx. 143. Uungu, Lake Region, East Africa, xxix. 229, 293, 304, 305.

Uvinga (for Uvinza?), Lake Region,

East Africa, ib. 403.

UVINZA, Lake Region, East Africa, ib. 25, 27, 29, 165, 166, 171, 193, 205 seqq., 238, 249, 259, 261, 278, 280, 417, 418.

UVIRA, Lake Region, East Africa, ib.

VAN.

221, 223, 226, 229, 235, 251, 385, 442.

Uviva (for Uvira?), xxix. 286. Uwende (for Uvira?), ib. 165. Uyan River, East Siberia, xxviii. 404.

Uyanzi, Lake Route, East Africa, xxix.

153, 155, 158.

Uyofu, Lake Region, East Africa, ib.

Uyonwa, Lake Region, East Africa, ib.

Uyungu, Lake Region, East Africa, ib.

Uzaramo, Lake Route, East Africa, ib. 28, 59, 66, 71, 72, 93, 97, 105, 243, 300, 390, 395, 427, 433, 441.

Uzielli, Mr., Munificence of towards North Australian Expedition, xxvi. p. ccxxvii.

Uzige, Lake Tanganyika, xxix. 254. Uzivaна, East Africa, ib. 59, 124.

VAAL River, South Africa, xxii. 138;

xxiv. 288; xxx. 240, 242. Vaca, North-West Mexico, xxx. 18, 37.

VACCINATION, effect of, against hoopingcough, xxi. 226.

Vait Island, Amur Mouth, xxviii. 390,

Vaukaudua, Fiji, xxvii. 245.

Valdez Inlet, Vancouver Island, xxvii. 269.

Valleys of Himalya, xxi. 61.

—— of West Tibet, xxiii. 26.

—, classification of, xxiv. 217. Valparaiso, xxi. 100; xxviii. 333 seqq.

Vambakou, Laconia, xxvii. 43.

Vampire Bats, Bolivia, xxiv. 262. · VANCOUVER cited as to Pacific currents,

xxiii. 228. - Island, Report of a Canoe

Expedition along East Coast of. By Governor James Douglas, xxiv. 245.

—, Description of, by Lieut.-Col. Colquioun Grant, the first colonist, xxvii. 268.

-; climate, xxii. 176, 193 — American Boundary Survey, xxvii. p. cxxvii.—Coast Survey of, xxviii. p. clii.; xxix. p. cl.

VAN DE GEHUCHTE, A.; On LATITUDE and LONGITUDE of some of the principal places in the Republic of Guatemala, xxviii. 359.

Incorrectness of all former maps of Guatemala; determination of latitude of the city of Guatemala; means

VAN.

taken to check the calculation; table of latitudes and longitudes, 361—promised map.

Van de Velde, Lient. (Surveyor of Pales-

tine), xxiv. 5, 10, 21.

Van Diemen's Land Current, xxiii. 227. See Tasmania.

Vangan River, East Siberia, xxviii.

Van Rensselaer Harbour, Kane's wintering place, xxvi. 5.

Variation of the Magnetie Needle at ADEN, Notice of, by Capt. S. B. Haines, I.N., xxiv. 225.

— Charts, xxviii. p. cliv.; vol.

xxix. p. el.

- of Compass, xxx. p. cxxxix. Varna, Bulgaria, xxiv. 77, 80—fictitious plan of, 85. Varnish Tree, Chusan, xxiii. 250.

Vattier de Bouville, M., Obit Notice, xxv. p. xciv.

VAVAU, Group of the Friendly Islands, xxii. 97—island so called, ib.

Vechera, Balkan, xxiv. 60.

Vechtkop, Orange River State, xxx. 254.

VEGETABLE Ivory; in Central America,

xxiii. 173, 187; xxiv. 257. Vegetables; in Chusan, xxiii. 253 grown in East Africa, xxix. 402 seqq. Vegetation of Himalya, xxi. 73—limit

– of New Guinea, xxviii. 269.

— of coast near Zanzibar, xxix. 34, 35.

Velshin, Bulgaria, xxiv. 79.

VENETICO District, Greece, xxvii. 6. VERMEJO River, Paraguay, Exploration of, xxiii. pp. exxi. exxii. ---, Ecuador, xxviii. 338.

VERMILION Pass and River, Rocky Mountains, xxx. 296-298, 300, 311, 314.

VERMIN among the Bedawins, xxv.

- in Ugogo Houses, xxix. 134. VERNEUIL'S Geological Survey of Spain, xxvi. p. eeiii.

Vernon Island, North Australia, xxviii.

Verria, Laconia, xxvii. 53.

Vertan, Ispahan, xxv. 11.

Vesuvius Rocks, the only rocks in Sea of Azov, xxvii. 144.

Ver, River of Kashmir, xxiii. 9.

Victoria Colony, gold produce of, xxviii. p. exeviii.

- Falls on Zambesi, xxvii. 358 seqq., 375. See Mosioutunya.

VOCABULARY.

VICTORIA Land, Arctic Sea. See Dr. Rae's Journeys, xxii. 82 seqq.; xxv. 200.

- Island, Queen Charlotte Group, xxiv. 248.

----, Vancouver Island, xxiv. 246-248; xxvii. 272, 280, 281.

- Headland, Aretic America, xxvii. 322.

– Basin, North Australia, xxvii. p. elxxvi.

- River or Barcoo, Central Australia, xxii. 242 seqq.—geological specimens from, 271. See also Barcoo.

– River, North Australia, xxviii.

4, 11 seqq.

Strait, Boothia, Arctic Sea, xxiii. 127, 138, 140, 141 seqq.

Vicuña, The, xxi. 118, 121.

Viglia Kastri (*Pyrrhi Castra*), Laeonia, xxvii. 52.

Vigne's Travels in Tibet referred to, xxiii. 8, 38, 43, 54, 57.

VILLAGE Life in East Africa, xxix. 362. —— Island, Torres Straits, xxvi. 184.

VILLAVICENCIO'S Geography of Ecuador, xxx. 70.

VINAN, or Yunan-fu, China, xxvii. 107.

VINCHUTA, Bolivia, xxiv. 262. VINDIKA River, South Central Africa, xxiv. 272, 273. Vintampha, Cambodia, xxx. 183.

Viow Viowsep, Namaqua Land, xxii. 137.

VISTER'S Kloof, Borders of Great Bushmanland, xxviii. 164.

VITI. See Fiji.
—, Town in Fiji, xxvii. 239. —, Town in Fiji, 22. — levu, Fiji, *ib*. 252.

VLEY River, Damara Land, xxii. 148. VLIUME River, South-West Africa, xxx. 162.

Vlochos, Monastery in Ætolia, xxvii. 1. Vocabulary, Emghedesie (Sahra), xxi.

-, Agadez (Sahra), *ib.* 169. -, small, of Bangbay Language, Central Africa, xxi. 212. - of Timbuktu Language, ib.

213.

- of Budduma Language, Lake Chad, *ib.* 214.

- of Language of Tule (misprinted Yule) Indians, in Darien, by Dr. Ed. Cullen, ib. 241.

-, Comparative, of Otjiherero (Damara), Bayeye, and Chylimanse, South Africa, xxv. 96.

- of Jimma, Galla, Adderay

VOCABULARY.

and Somal words, East Africa, xxv.

Vocabulary, Comparative, of Maori and Malay, xxviii. 330.

Voevodship, Amur, xxviii. 407.

(The Russian word seems to be used inappropriately here in English; as a Chinese Government is meant).

Vogel, Dr., Progress and results of his journey, xxv. p. cxxi.; vol. xxvi. p. ccx. -his death reported, xxvii. pp. clxii. clxiii.—Obit. Notice, xxviii. p. cxli. See also African Mission (Central), xxiv. 276 seqq.; xxv. 237 seqq.

- Vley, South Africa, xxviii. 165.

Volcancitoes (Geysers), of Puchultisa, South Peru, xxi. 120, 125.

Volcano in Mexico, Excursion to an See DE SAUSSURE, XXX. ancient. 53.

-; Volcanoes of Arequipa and its vicinity, xxi. 101—others of South Peru, 103, 118, 119, 123.

- extinct, in Tripoli, ib. 131.

on Tofua, one of the Friendly

Islands, xxii. 97.

- at Milo, whether active since the Christian era? ib. 215 — still in semi-activity, 219, 226—signs of past activity, 227.

-, Mud, supposed origin of singular hills in San Domingo, xxiii. 278. — of Red Sea, xxiv. 237—of Atacama, xxv. 164-of Hawaii, see Saw-KINS, 191 — Hlaska and others of Peru, xxvi. 213.

-— in San Salvador, xxviii. 350 seqq.—of Guatemala, triangulated, 360—of Ecuador, Cotopaxi, and others, xxx. 66, 68, 71.

-, Hints on collecting information

regarding, xxiv. 355.

Volcanic tracts of Caucasus and ad-

joining regions, xxi. 2, 3, 4.

— Group of Milo in the Archipelago. See Leycester, xxii. 201. - Formations south of Tripoli,

xxi. 131.

—— not found in Borneo, xxiii. 72.

– Aspects near Medina, xxv. 122.

- Tracts of Safáh and Leja in Bashan, xxviii. 235 seqq.; and see Leja.

Volney on Ruad, xxiii. 156.

Von Buch, Leopold, Obit. Notice, xxiii.

Von Stebold, cited on Japan current, xxiii. 229.

WADI.

Vourlia, Khan of, Morea, xxvii. 35, 41,

Vourfoura, Laconia, ib. 43, 49.

Vouthia, Milo, xxii. 204.

Voutiani, Laconia, xxvii. 45.

VRACHORI or Trichorium, Lake of, xxvii. 1, 4, 6.

Vrana (Marathon) xxvii. 17, 18, 31. VRESTHENA River, Laconia, xxvii. 43.

VRESTHENES Mount (Barbosthenes), ib. 52.

Vugiri Mount, Pangani, East Africa, xxviii. 211.

Vuli or Little Rains of East Africa, xxix. 31, 106, 110, 141, 285.

Vunglom River, Cambodia, xxx. 183.

Vuni Valu, Fijian Chief, xxvii. 233.

Vura Tavola, Fiji, ib. 259.

Vuurdood, Little Bushmanland, xxviii. 172.

Vysa (Bysia), Rumilia, xxiv. 42.

W.

Wabaha, or Elders of Villages in Usagara, xxix. 37.

Wabembe, cannibal tribe on Lake Tan-

ganyika, xxix. 250, 254, 313.

Wabisa, trading tribe near Lake Nyassa, ib. 167, 256, 443, 444. See Bubisa, Bica, Moviza, Muiza.

Wabuha, trading tribe of Lake Region,

East Africa, $i\bar{b}$. 211, 221, 230. Wadai, Central Africa, xxx. 121, 123.

Wadan, Central Africa, ib. 118.

Wadd, or Wudd, name of an ancient Arab idol, xxiv. 157, 158.

Wadduring Hills, Western Australia, xxvi. 237.

Wadi Abeela, Sahra, xxi. 163.

——— Agemamar, Sahra, xxi. 136. — Ahmar, Palestine, xxiv. 18.

— Alburook, North-Western Arabian Desert, xxiv. 116, 117.

- Alhagiz (Hajiz), Central Arabia,

ib. 170.- Alkura, Central Arabia, ib. 153,

192, 203, 207. --Aly, Syria, xxiv. 11, 12.

—— Anderas, Sahra, xxi. 164.

——— Asada, Sahra, ib.

—— 'Asal, Syria, xxiv. 25.
—— Attaf, Sahra, xxii. 135.

---- 'Ataliah, Palestine, xxiv. 11, 12.

—— Bazar, Dead Sea, xxvi. 59. —— Beij, Tripoli, xxiv. 277. —— Bir Jenab, Palestine, xxiv. 18.

—— Buddeh, Sahra, xxi. 164. —— Bunaye, Fezzan, xxiv. 277.

WADI.	WAGOGO.
WADI Busis, Syria, ib. 24.	Wadi Lebbeh, Dead Sea, xxvi. 65.
—— Chitsolen, Sahra, xxi. 162.	——————————————————————————————————————
—— Dalaghe, Northern Arabia, xxiv.	xxiv. 129.
121, 132.	—— Liwah, Bashan, xxviii. 243.
—— El 'Ain, Tyre, xxiv. 5.	— Mabrak, Northern Arabia, xxiv.
——— EL Arabah, On the Watershed	121.
of, by Captain W. Allen, xxiii.	—— Mahras, Dead Sea, xxvi. 59, 66.
166.	——— Marabun, Anti-Libanus, xxvi. 54.
——————————————————————————————————————	——— Milh, Carmel, xxiv. 9.
—— El Deraah, Dead Sea, xxvi. 63.	———— Moosa, North-Western Arabia,
—— El Hessi, Sahra, xxi. 133.	xxiv. 120, 123, 126, 133, 134.
—— El Jeib, near Western Arabah,	—— Nimreh, Bashan, xxviii. 243.
xxiii. 170.	See Wadi el Nemareh.
——-el-Kubera, Dead Sea, xxvi. 66.	—— Nogal, East Africa, xxv. 137.
—— el Kurn, Northern Palestine,	——— Sadr, Sinai Desert, xxiv. 117.
xxiv. 5, 6, 28-30.	——— Sebbeh, Dead Sea, xxvi. 65.
—— el Malih, Palestine, xxiv. 19.	——— Sellahmeh, Palestine, xxiv. 6, 7.
	—— Seluky, Syria, xxiv. 4.
——-el-Rahnah, Hijaz, xxv. 125.	——— Sha'ab, Syria, <i>ib</i> . 6, 7.
—— Rubudiyeh, east of Tiberias,	—— Shergi, Fezzan, <i>ib.</i> 279.
xxiv. 7.	—— Shi'ati, Schati, Fezzan, xxi. 133;
el-Senam, east of Bashan, xxviii.	xxii. 131; xxx. 114.
239.	—— Shib'ah, Syria, xxiv. 27.
—— el Teim, Hermon, xxiv. 25-27, 30.	—— Sirhan, Northern Arabia, xxiv.
——————————————————————————————————————	126, 130, 136-8, 143, 167, 168.
——————————————————————————————————————	—— Sofejin, Tripoli, xxiv. 276, 277.
Palestine, xxiv. 17.	—— Suweinit, Palestine, xxiv. 18.
——— em Dun ("of the Wild Goats"),	—— Talh, Wadi Arabah, xxiii. 167,
Dead Sea, xxvi. 65.	168, 170.
—— Ethel, Tripoli, xxii. 133.	— Tiggedah, Sahra, xxi. 163.
—— Faluj, Cœle Syria, xxiv. 30.	—— Tih, Northern Arabia, xxiv. 118-
———— Faria, near Nablus, xxiv. 19.	120, 212.
——— Fusail, Palestine, ib. 18.	— Yabis, Trans-Jordan, xxiv. 20,
—— Gharbi, Fezzan, xxiv. 279; xxx.	21.
114.	—— Yahfufeh, Cœle Syria, xxiv. 31.
——Gharandel, North-Western Arabia	— Za'arah, Syria, xxiv. 26.
xxiii. 167, 168; xxiv. 121.	Zakur, Palestine, ib. 11.
—— Ghurab, Palestine, xxiv. 12.	Zariry, Syria, <i>ib.</i> 30.
—— Hamade, in Desert El Tih; Phe-	Zemzem, Tripoli, ib. 277.
nomenon of sounds of drums heard	Wadigo Tribe, East Africa, xxviii.
there, xxiv. 120.	199; xxix. 312.
——— Hamam, Galilee, xxiv. 22.	WADOE Tribe, East Africa, xxix. 70,
—— Hariri, Syria, ib. 30.	83, 99, 312, 313.
—— Harung, Lebanon, ib. 34.	WAFANYA Tribe, Lake Tanganyika,
Helbon, Antilibanus, xxvi. 44, 46.	xxix. 248-50.
—— Hendaj, Galilee, xxiv. 23.	WAFIPA Tribe, Lake Tanganyika, ib.
——— Hujeir, Syria, <i>ib.</i> 4, 5.	258, 259.
Jerafeh, near Western Arabah,	WAFRI, Mound in Babylonia, xxvi. 144.
xxiii. 170.	WAFYOMA, tribe of Lake Region, East
Jermuk, Lebanon, xxiv. 3.	Africa, xxix. 261, 281.
—— Jiddin, near Acre, xxiv. 8.	WAGANDA, tribe of Lake Region, East
—— Kanah (Kanah of Joshua), xxiv.	Africa, ib. 312.
10, 11. Kawar Control Africa vyv 191	WAGARA, tribe of Lake Region, East
Kawar, Central Africa, xxx. 121.	Africa, ib. 190, 192.
——————————————————————————————————————	Waghoo, Borneo, Hindu temples at,
— Khureish, Palestine, ib. 11. — Khushahah Palestine ib. 25	XXIII. 82. Wagion Island, New Guinea, XXX.
— Kil-suf, Sahra, xxi. 135. — Kulonieh, Palestine, xxiv. 12, 17.	WAGOGO, tribe, Lake Region, East
——————————————————————————————————————	Africa, xxix. 139, 148, 159, 160, 405.
Layman, near blocks, XXV. 102.	111100, 1111. 100, 110, 100, 100,

WAGOLO.

WAGOLO, tribe, Lake Region, East Africa, ib. 267.

WAGOMA, tribe, Lake Region, East Africa, ib. 254.

Waguhha, tribe, Lake Region, East Africa, ib. 255.

WAHABIS; xxiv. 134—conquest of Al Jauf by, 146—doctrines, 147—notices

of, 181-6, 194. Wahayya Tribe, Lake Region, East Africa, xxix. 290.

WAHEHE Tribe, East Africa, ib. 129, 137, 139, 301, 316.

Wанна Tribe, Lake Region, East Africa, ib. 221, 230, 312.

Wahiao Tribe, East Africa, ib. 258, 406, 443, 444.

Wahinda Tribe, Lake Nyanza, ib. 276,

Wahlberg, J. F., Obit. Notice, xxvii. p.

Wahlenberg, Professor, Obit. Notice, xxi. p. lxi.

Wahumba Tribe and Hills, East Africa, xxix. 116, 139, 141, 150, 159, 161, 164, 275.

Waiau River, Otago, xxviii. 308.

Waikawa River, Otago, xxi. 25; xxviii. 314.

Waikivi Creek, Otago, xxviii. 327.

Wai Manu River, Fiji, xxvii. 235, 237, 260.

WAIMATOOK River, Otago, xxviii. 302.

Waimea Plains, Otago, ib. 310.

Waimumu Stream, Otago, *ib.* 308. Waindina River, Fiji, xxvii. 252.

Wainiki, mouth of Rewa River, Fiji, xxvii. 234.

Waini Kumi, Fiji, ib. 237.

—— Mbuka, Fiji, ib. 244. —— Ura, Fiji, ib. 255. WAINWRIGHT Inlet, North Coast of

America, xxiv. 241. Waiopai Estuary, Otago, xxviii. 299.

Wajiji Tribe, Lake Region, East Africa, xxix. 221, 223-8. Wakaguru Tribe, East Africa, xxix.

108.

WAKALAGANZA, noble tribe of Unyam-wezi, ib. 168, 192, 195. WAKAMBA Tribe, East Africa, xxiii. 116, 117; xxix. 99.

WARARANGA Tribe, of Lake Region, East Africa, xxix. 193, 228.

WAKATETE Tribe, Lake Region, East Africa, ib. 256.

Wakatip Lake, Otago, xxviii. 324.

WAKED, North Central Arabia, xxiv. 175.

WALLACE.

WAKHUTU Tribe, East Africa, xxix. 83, 96, 309, 378.

Wakilima hill-tribe of Chaga, East Africa, xxviii. 207; xxix. 358.

Wakimbu, Lake Route, East Africa, ib. 155, 157 seqq., 195, 300, 301, 305. Wakonongo, Lake Route, East Africa,

ib. 157, 161.

Wakuafi Tribe, East Africa, xxviii. 197, 199, 215; xxix. 312, 327, 352.

Wakul River, feeder of Murray River, xxv. 177, 179.

WAKUMBAKU Tribe, East Africa, xxix. 76.

Wakwanda Tribe, Lake Region, East Africa, xxix. 265.

Wakwivi Tribe, East Africa, xxix. 108.

WALASWANDA Tribe, Lake Region, East Africa, xxix. 269.

Walata, or Biru, Western Negroland, xxx. 118, 126.

Walckenaer, Baron, Obit. Notice, xxii. p. lxvii.

Walfisch Bay; xxii. 140-2, 144, 145, 157, 162—route from, to Lake Ngami, see Andersson, xxv. 79.

Walker Bay, Arctic Sea, xxii. 84.

WALID 'ALI, division of the Anazeh Arabs, xxviii. 230, 232.

Wall and Niblett, Remains of, recovered (Torres Straits), xxi. 14.

WALLACE, Alfred R.; On the Rio Negro, xxiii. 212—its characteristic colour, *ib.*—variations and colour of its tributaries, 213—causes, ib.—city of Mano, 214—great width above this; islands and formation; granite peaks; cataracts, 215—the Uaupes; its falls and cataracts; mean temperature of River and air; rise of the country, 216—unbroken forest; natives; construction of map, 217.

-; Notes of a Voyage to New Guinea, 10, 172—little knowledge yet of New Guinea; only one safe place to reside, Dorey; none but native Papuans on the island; formation of northern peninsula; Dorey promontory, 173—rain the rule; houses in the sea; Papuan characteristics, 174—tattooing; language; unhealthiness of Dorey, 175 -articles of trade; Dutch claims, not unreasonable; German missionaries; missionary traders, 176—Dutch expedition.

-; his researches in America and the Malay Archipelago, xxiv. p. c.—his explorations in

WALLAMETTE.

the latter, xxv. p. exv.; vol. xxix. p. elxxvii.

Wallamette River, Oregon, xxii. 192. Wallin, Dr. G. A., Narrative of a Journey from Cairo to Medina and Mecca in 1845, xxiv. 115—proceeds to Ajrood on the Suez line, ib.—castle of Alnakhil, 116—Bedawis of this part, 117—Wadi Tih, 119—Wadi al 'Arabá, 120—Wadi Gharandel 121— traverses the plateau east of Wadi Araba; plain of the Syrian desert; town of Ma'an; exactions of the Bedawis, and relations with settled cultivators, 122—traffic in the pilgrim season, 123—irrigation, 124—edible plant ealled samh, 126—remains of aneient fortress, at Udhruh, 127— Khan Alzebib, 128—mountains of Sheráa, 129—salubrious air, 130— Haweitat tribe; the Hejaia, 132, 133 —other tribes; former more cultivated state of the country, 134— Castle al Hasa, 135—desolate country, the Syrian desert quitted for one of some verdure, 136—the eireular valley of Al Gawf (Jauf), 138—described, 139—eharacter of the town; its quarters, 141—eastle, 142—traditions, 144—history, 146—Wahhabi praetices, 147—cattle, 148—excellenee of dates and varieties, 149 relations to Bedawis, 149—Sherarat tribe, ib.—woollen manufactures, 150 —remarks on Ritter's account, 151 town of Skaka, ib.—origin of the old name of Algawf (Jauf); Daumat Algandal (Jandal), 152—expedition of Mahomed against it, 155—Christianity previously professed, 157—and perhaps Judaism; traditions of idolatry, but this exotic; leaves Al Jauf, 158 —wells of Alshakîk, 159—Mountains Alaleim and Al Turky, 160—Jubbe, 161—tamarisk trees, 162 — Mount Musliman and traditions of Jubbe, 163—inscriptions, 165—leave Jubbe; peak of Alghawata, 166—quit the Nufood or Sandy Land; remarks on it, and on the name Dahana, by which it was formerly known; the ridges of Al Dahana, 164—slope of the country, 173 — Jibal Shammar, 175 — Aga (Λja) and Selma, and Hail the eapital of Shammar, 175—wells, 177—eultivation, 178—history of the Shammar, 178-83 — modification of Wahhabi puritanism, 183—attention of the women to religious duties, 184—domestic manners, 185—literature, 186

WAMAKUA.

—tribes of the Shammar, 186 horses of Shammar, 188—camels; other animals, 189 — traditions of former occupants, ib.—Benoo Ta'ınar, 190—the Amaliks and Enakim; Adnanian tribes, 191—further remarks on the Shammar, 193-95—the meeting-place of the two main stocks of the Arab nation, 195—remarks on Nejd, 196—close relations between nomads and townspeople among Shammar, 198—settlement of Bedawis to eultivation, ib.—houses of Hail, 200—other villages of Shammar Kafar, 201—the Benoo Temim, ib.—Feid, 202—Alghazale, 204—Mawkak, 205—probable population of the Shammar, settled and wander-in, 206—Dr. Wallin performs the pilgrimage to Medina and Mekka, 206—a few particulars of country from Hail to Medina.

Journey from Cairo by Mount Sinai to Jerusalem, xxv. 260—bargain with Beduins, 261 —start on the Desert, 262—Suez; Desert life with the Beduins, 263-70 —Beduin characteristics, 265—Cameliana, 267-9—springs of Moses, 270 the Convent of Sinai, 272—drought ascribed to the monks; reception as a Mussulman, 273 — ascent of the mountain, 274—the monks, 275—the library, 275—joins the Arabs, 276— Sea of Akaba, 277—deaf Beduin, 278 -Akaba, 280-journey to Nakhil, 282—recognition of the traveller; bargains with Beduins, 283—talismans written, 284—Desert of Edom. 285 — signs of former prosperity; ruins of A'wegh; commences practice as a physician with an Arab tribe of Tiyaha, 286—driven off by vermin; and difficulties of his trade, 286, 287—grotto town of Sum'a, 288 —different appearance of people, and nobler; reach Hebron, 289—Jerusalem, and places visited there, 290.

-; his Travels in Arabia, xxi. p. liii.—Royal Premium awarded to him, ib.—aid from Government and the East India Company to the prosecution of his researches, p. liv.—his explorations in Arabia, xxii. p. exiv. Obit. Notice, xxiv. p. lxxxv.

Walsh's experiments on deep eurrents,

xxiii. 220, 236. Wamakua Tribe, Mozambique, xxix. 312, 444.

WAMANDA.

Wamanda Tribe, Lake Region, East

Africa, ib. 265, 268.

Wamasai Tribe, East Africa, ib. 275, 312, 326 (*Mamasai*, probably a misprint), 327, 352, 393, 443. See also Masai, Umasai.

Wambozwa, pastoral tribe, Lake Region,

East Africa, ib. 258, 299. Wamrima, or "Coast Clans" of Zanzibar, ib. 48, 52, 54, 130, 309, 317, 404, 417, 440.

WANATIYA Tribe, Lake Region, East

Africa, ib. 268.

WANCHANG, Yangtsekiang, xxx. 82.

WANDANDU Tribe, on the Rwaha River, East Africa, xxix. 306. Wande Copal diggings, East Africa,

ib. 439.

WANGA and TANGA, south of Mombasa, *ib.* 310; xxviii. 197.

Wangan Hills, Western Australia, xxvi.

Wangara or Mandingoes, xxx. 117,

Wangewdoung, Aracan, xxiv. 94.

Wangindo Tribe, East Africa, xxix. 258, 312, 444.

Wansey Isle, Queen Charlotte Group, xxiv. 248.

Wanyamwezi Tribe, East Africa, xxix. 12, 14, 16, 57, 63, 79, 153, 154, 167, 168, 179, 180, 188, 190, 192, 195,

196, 198, 199, 200, 202, 228, 305, 380. Wanyikah Tribe, near Mombas, *ib*. 310. -----, place in Uvinza, near Lake Tanganyika, ib. 193.

WAPOKA Tribe, Lake Tanganyika, ib.

Wapputteekh Mountains, Rocky Mountains, xxx. 300.

Waragi or Jimma, East Africa, xxv.

WARAN, Northern Central Africa, xxx.

Warburg's Fever-drops, xxix. 42.

WARBURTON, Eliot, alluded to, xxiii.

-, Henry, Obit. Notice, xxix. p. exxiii.

-, Mount, Northern Australia, xxviii. 72.

Ward, Sir Henry George, G.C.M.G., Governor of Ceylon. Visit to ancient Tanks of Ceylon, and attempt to trace Ellehara Canal, xxvii. 328– Tank question; the remains indicate a superabundant population, 329first about Anaradhapura, afterwards about Pollinarua; Sigiri Tank; Kon-330 — Dimitelli drowawe Tank,

WASAWAHILI.

Tank; country uninhabited; Pollinarua ruins; utter depopulation; Giritella Tank, 331—Minnery Tank, 21 miles round; Kowdella Tank; reputation of district for insalubrity, 332—Kandelly Tank; embankment, 50 feet high, 120 feet base; Captain Sim's report; Padiwel Colum, the most gigantic of all; Anarajapura Tank and the Giant's Tank; entire solitude of Padiwel Colum, 333—can any use be made of these tanks? Colonising the only thing to be done. Captain Sim's plan recommended by Messrs. Adams, Churchill, Bailey.

Account of Ellehara Canal, the work of Mahasen, A.D. 275, 334—the stone band in the Ambangunga, 335 -embankment, 24 miles long, conducting the waters to Minnery, 337—great tamarind tree on the embankment, and traditions of navigation, 339—Weddahs, 342—extraordinary skill shown in this great work, 344—schemes for restoration, 345.

Report on Kandelly Tank, by Captain Sim, R.E., 346—Kandelly recommended for an experiment, 347 some population exists; scheme for attracting more, gradually to be extended, 348.

Wargela, Northern Africa, xxx. 113. Wari Branch of Kwora River, xxv. 110. Warka, Ruins in Babylonia, xxvi. 147,

Warori Tribe, Lake Region, East Africa, xxix. 139, 161, 301, 304, 305, 312, 316, 352.

Warran, El, east of Bashan, xxviii. 239. Warrego River, Central Australia, xxii. 237-9, 241, 257, 258.

Warrington, H., accompanies Dr Vogel, xxiv. 280—his death, ib. 281. Dr.

Warudi Tribe, near Lake Nyanza, xxix. 275, 277.

Warundi Tribe, near Lake Tanganyika, ib. 248, 249, 253, 312.

Wasagara Tribe, East Africa, xxiv. 268; xxix. 121, 130-2, 137-9, 359, 378, 380.

Wasagari Tribe, Lake Region, East Africa, ib. 264.

Wasawahili Tribe, of the coast opposite Zanzibar Island, *ib*. 51, 55, 63, 67, 69, 70, 74, 75, 79, 106, 109, 117, 137, 142, 159, 188, 189, 217, 301, 302, 309, 310, 317, 324, 343, 351, 352, 371, 398, 404, 405, 408, 410, 421, 422, 428, 429, 431, 435, 436, 445.

WASEGEJU.

Wasegeju Tribe, of the coast opposite Zanzibar Island, xxviii. 199; xxix. 310, 312.

Wasenze Tribe, Lake Tanganyika,

xxix. 254.

Washaki Tribe, near Lake Nyanza, ib. 275, 277.

Washenzi Tribe, of Usambara, East Africa, xxviii. 199, 205; xxix. 310.

Washi, Mound in Babylonia, xxvi. 144. Washington, Captain; his Report on Wiek Harbour, xxvii. 231.

Territory on Pacific, United States America, xxvii. 311 seqq.

- Island, Chadda River, xxv. 115.

· Land, North Greenland, xxvi. 8, 10.

Wasin, Wassin, Island and Peaks, East Africa, xxiii. 106; xxviii. 196, 197.

Wasongo Tribe, Lake Region, East Africa, xix. 265.

Wasowwa Tribe, Lake Tanganyika, ib. 258.

Wasui Tribe, Lake Region, ib. 278, 282. Wasukuma Tribe, near Lake Nyanza,

ib. 179, 270, 271, 310. Wasumbara Tribe, East Africa, xxviii.

199.

Wasumbwa Tribe, Lake Region, East Africa, xxix. 188, 261.

Wasungwa Tribe, East Africa, xxix. 157.

WASUOP'HANGA Tribe, East Africa, ib. 76.

WATATURU, wild pastoral tribe, near Lake Nyanza, *ib.* 139, 158, 164, 275, 277, 316, 393.

Water "Sucking Places" in Kalahari

Desert, xxi. 23.

—, effect of, on vegetation in high

plain of Tibet, xxi. 77.

— got by digging in certain parts of river-beds, Damara Land, xxii. 148.

—, eost of, at Ataeama Mines, xxiii. 203.

-, sold at Ghadamis, xxx. 258. - Buck, xxx. 251.

Water-berg, South Africa, xxiv. 289, 290.

Water-melons; in East Africa, xxix. 117—supply the place of water in certain parts of Africa, xxx. 114.

WATERSHED of the Wadi Araba, see Allen, xxxiii. 166.

— on the Balkan, remarkable, xxiv. 66.

WAZUNGU.

Watershed of Hijaz, xxv. 135.

WATERSHEDS often not identical with high ranges, and not so in the Himalya, xxiii. 8, 34, 37.

- of Eastern Africa, xxix. 29.

Wathembwe Tribe, Lake Tanganyika, xxix. 256, 259.

Wathen's Memoir on Auriferous Rocks of Victoria, noticed, xxiii. p. cxxvi.

Watling Island, Bahamas, the real San Salvador of Columbus, xxvi. 191,

Watondwe, people of Saadani, Zanzibar Coast, xxix. 45.

Watongwe, Lake Tanganyika, 259.

Watowsi Tribe, Lake Region of East Africa, xxix. 188, 192, 278, 288, 312.

Watuta, a predatory tribe, Lake Region of Eastern Africa, *ib.* 188, 190, 193, 218, 221, 229, 289, 300, 304, 312, 352.

Wauga, an extensive Pagan country south-west of Darfur, xxiii. 121.

Waugh, Colonel A. S., Surveyor-General of India; Patron's Medal assigned to, xxvii. pp. viii. lxxxvi.; vol. xxvi. p.

cexv.; vol. xxviii. p. elxxxiii. Wa'ungu, tribe of East African Lake

Region, xxix. 304, 380.

WAUMBA, tribe of East African Lake Region, ib. 268.

Waves, Cialdi's Theory of Movement of, xxviii. p. eexxii.

Wavinza Tribe, Lake Region, East Africa, xxix. 193, 221, 230, 380. Wavira Tribe, Lake Region, East

Africa, *ib.* 254.

Wavisa, xxix. 167. See Wabisa, &e. WAWENDE Tribe, Lake Region, East Africa, ib. 192.

Wax. See Beeswax.

WAYOMBO Tribe, Lake Region, East Africa, *ib.* 267.

WAYOWWA Tribe, Lake Region, East Africa, ib. 254.

WAZARAMO Tribe, East Africa, ib. 76, 83 seqq., 96, 97, 312, 378, 417, 435.

Wazagira, or Ministers, in Ugogo, ib.

WAZEGURA, tribe, East Africa, xxviii. 204, 205, 207; xxix. 99, 100, 312.

Wazinza Tribe, Lake Region, East Africa, xxix. 268.

Waziraha Tribe, East Africa, ib. 83, 98, 110, 309.

WAZUNGU, a name applied to the white

WEAVING.

travellers (Burton and Speke), xxix. 126, 152.

Weaving, generally unknown to Dyak tribes of Borneo, xxiii. 77.

— in East Africa, xxix. 381.

Webbe Ganana, Shebali River, in Somal Country, xxv. 142; xxix. 2.

Weddahs or Veddahs of Ceylon, xxvii. 342.

Weddell's Travels in Bolivia, xxiii. p. cxxii.

Weigelia Rosea, Chusan, xxiii. 251.

Weight, Bodily, of New Zealanders, and comparison with that of British soldiers. See Thomson, xxiii. 88.

Weir, William, Obit. Notice, xxix. p. exxviii.

Weisht, North Central Arabia, xxiv. 136-138, 167, 168.

Weiss, in Khuzistan, xxvii. 110.

Wejh, Port on Red Sea, xxiv. 188, 207. Welbank Bay, Arctic Sea, xxii. 76.

Welbing, Western Australia, xxii. 59, 70.

Welcome, Mount, Western Australia, xxvi. 261.

Welland Canal, Canada, xxii. 175.

Wellington Channel, Arctic Sea; teems with animal life, xxii. 118—supposed traces of Franklin in, xxvi. 27, 30; xxviii. 372.

Bay, Victoria Land, xxii.

_____, on the Murray River, xxv.

Wells of Central Arabia described, xxiv. 177—mode of irrigation from them, 124.

Wentuhuysen's Inlet, Vancouver Island, xxiv. 246.

Weranhanja, Lake Region, East Africa, xxix. 273, 283, 287, 289. Werdieh Canal, Babylonia, xxvi. 132.

WERDIEH Canal, Babylonia, xxvi. 132. WERNER, Member of Aral Survey, xxiii. 96, 97.

Wessel Cape, Northern Australia, xxviii. 138.

West Indies; Coast Surveys, xxvi. p. cci; vol. xxvii. p. cxxvii.; vol. xxviii. p. cliii.; vol. xxix. p. cli.; vol. xxx. p. cxxxix.; other surveys, &c., xxvi. p. ccxxii.

Western Australia. See Australia.

WEYMOUTH Bay, Northern Australia, xxviii. 6.

Whale Fisheries. See Petermann, xxiii. 129—former, near Spitzbergen 130, 131—opening for renewal there and in Polar Basin, 134—success of the American, north of Behring's

WHITTAKER.

Straits, xxiv. p. lxxxi.; trial of the Arctic Sea by the East of Spitzbergen urged, ib.; in Southern New Zealand, xxviii. 313 seqq.
Whale Sound, Baffin's Bay, xxiii. 140.

Whale Sound, Baffin's Bay, xxiii. 140. Whales, Great numbers north of Behring's Straits, xxii. 121—in Arctic

Sea, xxiv. 242.

WHALER Point, North Somerset, Aretic Sea; depot of stores left there by Sir James Ross, used by Kennedy, xxiii. 124.

Whalers, Letters from Captains of, to Mr. Petermann on open sea east of Spitzbergen, xxiii. 135.

WHARNCLIFFE, Lord, Obit. Notice, xxvi.

p. clxxxvii.

WHEAT culture in Chusan, xxiii. 253.

Wheelwright, Mr., of Pacific Steam Navigation Company, xxiii. 204.

Whewell on the tides noticed, xxiii. p. cxxxi.

Whidbey's Island, Washington Territory, xxvii. 317.

Whinde, Zanzibar Coast, xxix. 45, 56, 76, 99, 110, 112.

White, Adam; Note on the Tsetsé Fly, xxix. 113.

——— Nile. See Nile.

River (i. e. White Nile), xxix. 4, 276.

—— Mountains, Eastern Siberia, xxviii. 382.

Whitney, Asa; Plan of direct communication between Centres of Population in Europe and Asia, xxi. 86—railway to the Pacific; North America the receptacle for surplus population of Europe, 87—Western Coast, its capabilities; China; great objects which the railway would fulfil, 88—comparison with long sea routes; America the trade-shed of the world, 89—Oregon, its great advantages of position; means of making the railway, 91—by cession to the Projector of 60 miles in width of land across the Continent, and sale of this; preparatory labours of the Projector, 93—the route, 94—delay fatal to the plan on American soil, but it might be carried out on British territory, 95.

xxi. pp. xev., 91, 95; xxii. pp. cxv.,

Whittaker on Hannibal's Passage of the Alps, xxv. 183.

WHOOPING.

Whooping cough. See Hooping.

Wick, Observations on the Water of, by John Cleghorn, xxvii. 230.

Wickenham River, Northern Australia, xxviii. 86.

Wickham and Cramer on Hannibal's Passage of the Alps, xxv. 183.

— Heights, Northern Australia, xxviii. 34.

Widdrington, Capt. Samuel, Obit. Notice, xxvi. p. clxxxvii.

Widow Strangling in Fiji, xxvii. 247.

Wielhorski, Count de, Obit. Notice, xxvi. p. clxxxviii.

Wigo Hills, East Africa, xxix. 81.

Wilbinga Hill, Western Australia, xxii. 71. See Welbing.

WILCOX, Lieut., visits the Irawadi near its sources, xxvii. 55.

WILD Tribes near the Mekhong, xxvii.

— flax, on Mackenzie River, xxii. 189.

WILFORD, on the Khasas of the Himalya, xxi. 83—on the African Lakes, xxix. 232.

WILGE River, Orange River State, xxx. 235, 236.

Wilkes cited on Pacific Currents, xxiii. 225-227, 231.

Wilkinson, Mr., R.N.; his drawings, &e., of antiquities at Milo, xxii. 211, 212, 215.

---, SIR J. GARDNER, communicates a native account of the Jimma Country (East Africa), xxv. 206—Position; umbrella form of houses, 207-cattle and currency, 208—animals; vegetable productions; earth eaten by cattle, 210—religion said to be Christian; language; captives, 211 — marriage customs; funerals, 212—Government; dress; traffic, &c., 213—rainmakers; imperfect vocabulary, 214.

Wilkovi Basin, Danube Delta, xxx.

WILLIAM Head, Vancouver Island, xxvii.

- Creek, East Africa, xxviii. 192. Williams, General, his discoveries in Khuzistan, xxvii. 120.

--, Lieut.-Col. W. F. (the same), xxvi. 131, 148, 153.

—, Rev. David, Obit. Notice, xxx. p. exxvii.

-, Lieut. E., B.E., Map of Pegu by, xxvii. 57, 61.

WILMOT Group, Arctic Sea, xxii. 84. WILSON, James S.; Notes on the Phy-

sical Geography of North-West Aus-

WINTER.

TRALIA, XXVIII. 137—former mistaken belief that a high range of mountains existed in North-Western Australia; continuous table-land, 138—geologieal structure; grass lands, 141—navigable rivers, 142—climate, 143—nature of the grasses found, 145—timber; indigenous fruits, 146—uses of the Adansonia fruit and fibre; indigenous rice, 147—wild yams; cotton tree; quadrupeds; birds; bats, 148 -kangaroos, 149—fish; natives, 150 —tooth-filing and circumcision, 151 weapons; rude boats and floats, 152.

—; his explorations noticed, xxviii. p. cxcv.

-—, Sir Belford H., Obit. Notice, xxix. p. exxx.

- Mount, North Australia, xxviii.

59.

Wilyankura, Unyamwezi, xxix. 187, 229.

Winapa, North-West Mexico, xxx. 9. Winburg, Orange River State, xxx. 238. Wind, theory and charts of, xxi. p. xci. Winds in Himalya and Plain of Tibet, xxi. 73.

- in West Tibet, xxiii. 64.

— of the Aral Sea, dangerous, xxiii. 100.

—, Effect of, in eausing eurrents, xxiii. 237.

– on Red Sea, xxiv. 231.

—, accurate observations of, wanted, xxvi. 173.

—, eauses of dry prevailing. See HOPKINS, XXVI. 158.
—— and Currents, Permanent Effects

of, xxvii. p. cxxxiv.

-, Effect of, on level of Seas of Azov and Sivash, xxvii. 141, 142prevailing, on those seas, 143.

—, influence of cold, in reducing temperature, xxvii. 209.

WINDWARD travelling of seaweed, also of sand and boulders, xxvii. 231.

Winderasen Tank, Ceylon, xxvii. 347. Wine of Milo, xxii. 225.

-- vat of rock, in Palestine, xxiv. 11. Wines of Australia, xxiii. p. cxxviii. Winniett's Arctic Exploration, xxiv.

244.

Winnipeg River, xxii. 179, xxx. 270.

– system, 175.

— Lake, climate of, 176,—177 height of, 178, 179, 288.

Winnipigoos Lake, xxii. 179.

Wintchian, Winkjan, Shan or Laos State, xxvii. 90, 106. WINTER TEMPERATURE of the British

WINTER.

Islands, On causes of the mild, by THOMAS HOPKINS, XXVII. 206.

Winter preparations of Kane's Expedition, xxvi. 4.

- Island the pole of summer cold in northern hemisphere, xxii. 124.

WINTERBOTTOM, J. E.; his explorations in Tibet, xxi. 62, 64, 73; xxiii. 10, 54 seqq.

Wire coils used for ornament in East Africa, xxix. 326, 427-8.

Wisabi Tribe, Lake Region, Africa, ib. 269.

Wisconsin, Rate of Settlement in, xxi. 92.

WITTEBERGEN, Orange River State, xxx. 236.

WITTENOOM, Mount, North Australia, xxviii. 54.

Wittewater, Bushmanland, xxviii. 158. WITWATER'S Rand, Transvaal, xxx. 245, 251.

Wizard's Peak, Western Australia, xxii. 68.

Wogodogнo, Negro Land, xxx. 122.

Woi River, Ukambane, East Africa, xxx. 130.

Wollaston Land, Rae's Journey from Great Bear Lake to. See RAE, XXII. 73.

----, xxii. 77, 83; xxv. 199.

-— Lake, British North America, xxii. 182.

Wolstenholme Sound, Baffin's Bay, xxiii. 139, xxvi. 15.

Womba, Guari, Sudan, xxiv. 286.

Women of Milo, xxii. 225.

-, respect for, in Tonga, xxii. 110.

Wonder Fontein, Transvaal, xxx. 251. Woochang city, Hankow, xxx. 90, 91, 98.

Woop, Capt. John; his voyage to seek a North-East passage in 1676, wreek and failure, xxiii. 132—his subsequent misrepresentations as to the nature of the Sea of Spitzbergen; pointed out by Barrington and Beechey, 133.

-, Colonel, B.E., his survey of the

Irawadi, xxvii. 55, 61, 78.

, Comm. James, R.N., Coast Survey of Rossshire, xxiv. p. xe.; Obit. Notice, xxx. p. cxxvii.

-, Lieut. John, I.N., Explorer of the Oxus source, xxi. 65.

Wood-hen, New Zealand, xxviii. 307,

Woods, Lake of the, British North America, xxii. 177.

YAKONA.

Woody Lake, British North America, ib. 182.

- Point, Vaneouver Island, xxvii. 269.

Woo Mountains, Hupih Province, China, xxviii. 289.

Woollen goods, trade in, at Kiakhta xxiv. 307.

Wooseay, Chusan, xxiii. 246. Woosuah, Yangtsekiang, xxx. 86. Worms of Fezzan, Edible, xxiv. 280.

Wormwood in Arabian Desert, xxiv. 116.

Woronzoff, Prince, xxi. 5. WORTABET, John, xxiv. 27.

Wortel, South Africa, xxviii. 171.

WORTH, Captain, cited on currents off Pacific Coast of Central America, xxiii. 232.

Wuchangfu, China, xxviii. 289, 290.

Wuнu, Woohoo, Yangtsekiang, ib. 291; xxx. 81, 96.

Wusthof, Gerard Van, Dutch Envoy to Laos, xxvii. 90, 106.

Wusung, Yangtsekiang, xxviii. 293; xxx. 75, 94.

Wuzu, Chadda River, xxv. 117. Wyld's Great Globe, xxi. p. lxix.

X,

Xebire (Zobair), near Basrah, xxx. 198. See Zobair.

Xibaru, Rio Negro, xxiii. 214.

XIE River, Tributary of Rio Negro, xxiii.

Y.

Yabis, Trans-Jordan, xxiv. 20.

Yablonoi Range, Amur Land, xxviii. 376, 379.

YABON River, Samana, San Domingo, xxiii. 273.

Yabrin, Desert of, Arabia, xxiv. 169, 172-174.

Yabrud (Jabruda), Antilibanus, xxvi.

Yabtonoi Mountains, Amur, xxviii. 427. Ya'bud, Palestine, xxiv. 9, 10.

Yadega, Negro Land, xxx. 122.

Yagba, Yoruba, xxx. 222, 225, 232.

YAHLUNGKIANG River, China, xxviii. 289.

Yah-Quilem in Kalunda, Central Africa, xxiv. 273.

YAK of Tibet, xxi. 79.

Yakaji, South Sudan, xxiv. 286.

Yakona River, East Siberia, xxviii. 404.

YAKOVZI.

Yakovzi, Balkan, xxiv. 67 Yaksa, Manchuria, xxviii. 409.

Yakut, Arabian Geographer, quoted, xxiv. 169, 172, 174, 191.

Yakuts, People of East Siberia, xxviii. 406.

Yакитsк, *ib.* 407.

YALO (Ajalon), Palestine, xxiv. 11.

Yams, enormous, Tonga Island, xxii, 102.

–, Gardens of, Fiji, xxvii. 258. –, Wild, North-West Australia, –, Wild, xxviii. 147.

- in East Africa, xxix. 402.

Yambe, East Africa, xxviii. 200. Yambu, Arabian Port on Red Sea; route from, to Medina, xxiv. 208; 210; 214,

YANAMAYA River, East of Peruvian Andes, xxv. 152.

Yandabo, Burma, xxvii. 78.

Yangchowfu Kiangnan, China, xxviii. 292, xxx. 79.

Yangtse, Cape, China, xxviii. 293.

YANGTSE-KEANG, The, and the HWANG-Ho or Yellow River, by WILLIAM Lockhart, xxviii. 288.

-, or Takiang from Wusung to Hankow, Notes of a Voyage up the, by Laurence Oliphant, with ehart by Capt. Sherard Osborn, xxx. 75.

-, Ascent of the, by WILLIAM BLACKNEY, R.N., XXX. 93. -, Surveys of, xxix. p.

exlviii.; Observations on, p. clxxi. YANGTUNG Valley, Chusan, xxiii. 244. Yansu'a, Arabia, xxiv. 169, 172, 173.

YANTRA River, Balkan, xxiv. 67, 68. YANVO, South Central Africa, xxx. 153.

YANYIKA Road, East Africa, xxix. 145. YAQUI River, and Tribe, North-West Mexico, xxx. 12, 41, 44, 45.

YARIM Burghas, Rumilia, xxiy. 37.

Yarkand, xxi. 58, xxiii. 6.

YATA, East Africa, xxx. 130.

YATES, Joseph, Obit. Notice, xxvi, p. clxxxviii.

YATIR, near Tyre, xxiv. 5.

Yau country and race, Burma, xxvii. 56,

Yavisa, Darien, xxvii. 194.

Yebain, a tribe in Pegu, xxvii. 81.

YEFREN, south of Tripoli, xxii. 133, 134. See Yofran.

YEGUADA River, Samana, San Domingo, xxiii. 274.

YEH, Chinese Commander at Canton,

xxviii. p. excii. Yeins, a race in East Burma, xxvii. 92. YELLOW-KNIFE Indians, xxvi. 19, 20.

YU.

Yellow River, important changes which have lately taken place in the, xxviii. 293 seqq. Sce Hoang Ho.
YEMALE Hills, Zambesi, xxx. 157.
YEMBEKJE Koi, Bulgaria, xxiv. 80.
YEMETHEN, Burma, xxvii. 77, 78.
YEMS, a race East of Burma, xxvii. 92.

YENANGYOUNG, Petroleum Depot, Burma,

xxvii. 77. YENE, Rumilia, xxiv. 44, 45.

Yeni River, Bolivia, xxiv, 263. Yenikale, Strait of, Crimea, xxvii. 145. Yenikoi, Balkan, xxiv. 41, 52, 71.

Yenikeui, Dobrudsha, xxvi. 208.

Yentsang Saltworks, Chusan, xxiii. 244. Yeokhyoung, Creek in Aracan, xxiv. 88, 89,

YEZD, city in Persia, xxv. 20.

-, Route from Ispalian to, xxv. 10. -, Route from, to Kerman, ib. 20.

Yezdanabad, Kerman, Persia, ib. 26, Yezdkhast, Shiraz, Persia, ib. 77.

YIMAHA, Chadda River, xxv. 113.

YLAMA, Honduras, xxx. 62.

YNAMBARI River, Tributary of Purus, east of Andes, xxv. 157.

Yofran, south of Tripoli, xxi. 131. See

Yojoa or Taulebe, Lake of, in Honduras. See Squier, xxx. 58.

— Town, *ib*. 62. - River, ib.

Yola, Sudan, xxiv. 287.

Yoma-doung, or Yoma Range, Aracan,

xxvii. 54, 61, 65—Passes of the, 74, 75. -, Peguan, *ib*. 77-79.

Yомво, Unyamwezi, xxix. 182,

York Factory, Hudson's Bay Territory, xxv. 256.

Yorke, Col. P.; On the Aneroid, xxi. 35.

- referred to, xxi. p. lxiii.

Yoruba and the Nupé Countries in 1858, Journey in, by Daniel May, R.N., xxx. 212.

-- people, xxx, 121.

Youlanging, West Australia, xxvi. 235. Young, Capt. Allen, volunteer under M'Clintock and large contributor to the Expedition, xxvii. p. excv.

-, Lieut. R.; Explorations in Tibet,

xxiii. 10, 54.

-, River, Western Australia, xxii 27.

Yovan Dervish, Balkan, xxiv. 52.

Yovu, and River, East Africa, xxix. 126, 188.

Yoyo Creek, Central Australia, xxii. 258, Yu or Jade, Mines of, in Upper Burma, xxvii. 72.

YUCON.

Yucon River or Kuichpak, Russian America, xxv. 196.

Yuen River, China, xxviii. 289.

Yuhmur on Litany River, Syria, xxiv. 27.

Yule, Capt. Henry, on the Geography of Burma and its Tributary States, in illustration of a new Map, xxvii. 54.

Sect. 1.—History of knowledge of Burmese Geography, 54—great extension in years following 1826, 55data from which Map is compiled, 57 —correction of longitude of the Irawadi, 60—vicissitudes of Burmese empire and boundaries, 61—Tribes of genuine stock recognised by Burmese, 63—division of the Burmese territories in a general way, 63—Mountain Ranges, 64—description of the kingdom of Burma, beginning from the north, 66—the Irawadi and its valley, 66-71—Bamo, and Chinese trade, 69valley of Ava, 71—Amarapura; the Kyendwen River, 68, 71, 72—Kubo valley, 72—native Christians, 73—Yo country, 74—roads across the Yoma to Aracan, 74, 75—the Khyens, 76country below Ava east of the Irawadi, 77—Peguan Yoma; Red Karens, 78—the Lower Irawadi, 79—the Delta, 80—the Sitang River and Valley; the Talain people, 82—the Karens; Toung-thus, 84—population of Burma, 84-87.

Sect. 2.—On the Shan States; the Shan or Tai race, 87—position and general character of the country, 88the Rivers Salwen and Mekhong, 89 —wild tribes, 90—Red Karens, 93 the Shan Principalities, Mobye, 95-Mokmé; Momé; Nyoung-yuwe, and its Lake, 95, 96—floating islands, 97— Legya; Theebo; Momeit, 98—Theinnee; Kaingma Maingmaing; great silver mine; Maing Tein, 99-Maingleng-gyee; Kiang Hung; Kiang-Tung, 101—Kiang Khen, 102—relation of these States to Ava; contingent forces, 103—the Tsaubwas or Princes; decay of population and wealth; Shan States tributary to Siam; Zimme or Kiang mai; Muang-Nan, Muang Phe, 105—Muang Luang Phaban or Lanchang; Chandapuri or Winchian, 106 -Sacred Palee names of places; narrative of Chinese travellers through these States in Duhalde, 106.

—, Lieut., R.N., xxi. 17.

— Indians, &c., at, xxi. 241—is a mistake for Tule Indians.

ZANGSKAR.

Yuna River, San Domingo, xxiii. 270, 272—navigation of, 273.

Yunan, Yunnan, Province of China, xxvii. 87, 88; xxviii. 288; xxx. 182; D'Anville's map of, xxvii. 58.

fu, chief city of above, xxvii.

107; xxviii. 289.

Yupidatzy, or "Fish Skins" of the Chinese, the Golds of the Amur, xxviii. 387.

Yuquivo, North-Western Mexico, xxx. 29.

Yuracaru Indians, Bolivia, xxiv, 261, 262.

Yurador River, Darien, xxvi, 178, 179. Yural, Naipi River, Darien, xxiii. 196. Yusufieh Canal, Babylonia, xxvi. 142, 143.

YUTHIA. See Ayuthia.

Z.

ZAGAYAN Hill, Amur Land, xxviii. 380. ZAHERANY River, Gorge of, Syria, xxiv. 3.

ZAHRTMANN, Vice-Admiral, Obit. Notice, xxiii. p. lxv.

Zaka, tax levied by the Wahabis, xxiv. 146, 147, 149, 152, 159, 163, 179, 180.

ZAKARIT, Arab tribe of the Shammar, xxiv. 187, 195.

Zakur, Central Palestine, xxiv. 11.

Zambesi, Zambeze, &c., River, xxi. 24; xxii. 168, 171, 172; xxiv. 268—ascent of Upper Zambesi, or Leeambye (q.v.), xxiv. 293, 295, 297, 302, 304; xxv. pp. cxvii., cxix., 220, 221, 224, 225; xxvi. 78, 93, 110, 114, 115, 124, 125—the Great Falls, xxvii. 358 seqq., but see Mosiaotunya and Victoria Falls; on lower part of, xxvii. 374—particulars as to coal, &c., xxviii. p. ccv.; xxix. 44; xxx. 142, 143, 148, 152, 154, 157.

expedition, xxviii. p. cc.; vol. xxix. p. exc.

- New, xxiv. 268, 270.

———, Country South of the Lower, and Journey of Galvao da Silva to Manica Gold-fields in 1788, by James Macqueen, xxx. 155.

Zanfara, Central Africa, xxx. 120, 125,

126.

ZANGIAN races, XXIX. 309.

Zangskar River, Tibet, xxi. 64; xxiii. 38, 40, 41.

, Province of Ladak, River

ZANZIBAR.

Tibet, xxiii. 14, 16, 27, 29, 34, 36, 38, 42—snow-fall in, 67.

Zanzibar, Notes on the Possessions of the Imaun of Muskat, on Climate and Productions of, and on prospects of African discovery from Mombas, by Colonel Sykes, xxiii. 101.

- to Benguela, notice of caravan journey, xxiv. 266; xxix. 11, 12

seqq., 18.

-, ancient colonies in, xxix. 49.

- Sultan of, 12, 14, 19, 80. See Sayyid Said and Sayyid Majid.

——, imports, *ib.*, 422.

ZANZOUR, a district of Tripoli, xxii.

Zapotitan Marsh, San Salvador, xxviii. 352 seqq.

Zara River, Bolivia, xxiv. 264.

River, explored, ZARAFSHAN above Samarcand, xxiii. p. lxxxviii.

Zart koi, Balkan, xxiv. 67.

Zaveh, Yezd, Persia, xxv. 20.

Zawia, oasis in Tripoli, xxii. 132.

ZAYLA, East Africa, visited by Burton, xxv. 138.

Zearet, Kerman, Persia, xxv. 60.

Zebedany, Zebdany, and its Plains, Ceele Syria, xxiv. 26, 28-31, 43, 44,

Zebras in East Africa, xxix. 67.

Zeekiang, Yangtsekiang, xxx. 82.

Zeinabad, Yezd, Persia, xxv. 21.

Zeita, near Plains of Sharon, xxiv. 10. Zeitoun, Gulf of, Greece, xxvii. 13.

Zelczin, Sea of Azov, xxvii. 148.

Zembere, Zambere, &c., name given by old geographers to the unknown Nilotic Lake, xxix. 233.

Zenagha, tribe of Berbers, xxx. 127.

ZENATA, tribe of Berbers, *ib.*, 117. ZENTAN, Tripoli, xxii. 133; xxiv. 277.

Zenza River, Angola, xxv. 230.

Zerooi, Zambesi, xxx. 159.

ZEREND, town and district of Kerman,

Persia, xxv. 20, 27, 28.

— village and district south of Tehran, ib., 3, 4, 6.

Zeya River, Amur, xxviii. 382, 388, 429 seqq., 444

Zhibu, Chadda River, xxv. 116, 118. Zhunglam (or "Midway"), Great Valley of, Tibet, xxiii. 16, 26, 27, 29, 35,

Zibliyet, Babylonia, xxvi. 138.

ZIEGLER, his survey of Appenzell and St. Gall, xxii. p. c .- his map of Switzerland, xxiii. p. xeviii.—on the Swiss

ZUBEIDAS.

Survey, xxv. pp. cvi., cvii. — map of Madeira, cvii.

Zifreh, Ispahan, xxv. 12.

ZIMBILI Hill, Unyamyembe, East Africa, xxix. 188.

Zimme, otherwise Kiangmai, &c., Shan State under Siam, xxvii. 55, 59, 62, 101, 104, 108. See Kiang-Mai.

Zingis, Zinj, &c., xxix. 30. Ziph, Palestine, xxvi. 59.

Zipisa, Sebaya, South Peru, xxi. 116, 117.

ZIRGUN, Fars, xxvii. 119.

ZIUK Point, Sea of Azov, xxvii. 145. ZIWA or "Pond" in Ugogo, East Africa, xxix. 16, 146 seqq.

- applied to Lake Tanganyika, ib., 234, 307.

Zoagha, oasis on coast of Tripoli, xxii. 132.

Zobair, Chaldean Desert, xxvi. 152, 153. See Xebire.

Zobeid Arabs, Babylonia, xxvi. 134, 135.

ZAGHA, Niger, XXX. 127.

Zoghawa, tribe of the Tebu in Sahara, xxx. 121.

Zoghoran tribe, Central Africa, xxx. 119.

Zoji La, Pass between Kashmir and Tibet, xxiii. 11.

Zolons, tribe on the Amur, xxviii. 420.

ZONHWE River, Lake Route, East Africa, xxix. 109, 110.

Zoology of Louisiade Archipelago, xxi. 16.

—— of Tibet, xxi. 79. —— of Samana, San Domingo, xxiii. 280.

-- of Fiji, xxvii. 267.

— of Vancouver Island, xxvii. 290.

ZOQUIENE River, tributary of Limpopo, South Africa, xxiv. 289.

Zoraн, Palestine, xxiv. 12.

Zoromawa tribe, Central Africa, xxx.

Zorras, Atacama, xxv. 167.

Zouga River, Lake Ngami, xxi. 19, 21; xxii. 163, 165, 166; xxv. 92; xxvii.

Zoutpansberg, Transvaal, xxii. 139; xxiv., 289, 290.

Zoutpansfontein, Bushmanland, xxviii.

ZOUT Rivier Kop, Bushmanland, ib.,

ZUBEIDAS Road, pilgrim route from Mesopotamia to Mecca, xxiv. 169.

ZUFURU.

ZUFURA, on an island in the Pangani River, Eastern Africa, xxviii. 211.

Zugar Islands, Red Sea, xxiv. 237.

Zugharta, Syria, xxiv. 34. Zumbo on Zambesi, and Zumbo River, xxvi. 110, 112; xxvii. 383; xxx. 153, 156.

Zungomero, Lake Route, Eastern Africa, xxviii. 221; xxix. 16, 59, 61, 73, 76, 78, 80, 81, 83, 90, 110, 180, 351, 453.

ZWART.

ZUNGOMERO to Kondachi, route, xxix.

Zurich, increase of population in, xxiv.

Zuur Water, Little Bushmanland, xxviii. 169.

ZWART Kop, Natal, xxviii. 233,

- Puit, Little Bushmanland, ib. 173.

THE END.









